

**Traditional medicinal knowledge about Sonpatha Ke Illi Hyblaea puera (Cramer)  
[Hyblaeidae: Lepidoptera] in Chhattisgarh, India: Updated Version**

**Pankaj Oudhia**

**Introduction**

**Entomophagy and Entomotherapy are well known in Asia since generations. Unfortunately not much work has been done to document valuable Traditional Medicinal Knowledge about Insects. Pankaj Oudhia is documenting this knowledge since year 1990. The present note is updated version of his previously published online research document available through [pankajoudhia.com](http://pankajoudhia.com).**

**Keywords: Entomophagy; Entomotherapy; Medicinal Insects; Ayurveda; Chhattisgarh;**

Sonpatha (*Oroxylum indicum* (L.) Benth. ex Kurz, family Bignoniaceae) is well known medicinal herb in Chhattisgarh. Its root bark is well known and much esteemed being an ingredient of the Dashamula of Hindu medicine. According to Ayurveda, root bark is acrid, astringent to bowels, cooling, aphrodisiac, tonic, appetizer and useful in biliousness, bronchitis, fevers, intestinal worms, vomiting, dysentery, leucoderma, asthma, inflammations and anal troubles. Its fruits are acrid, stomachic, anthelmintic and good in heart and throat disease, piles, bronchitis etc.

Sonpatha Ke Illi *Hyblaea puera* is a common insect feeding on Sonpatha. The traditional healers and herb vendors of many parts of Chhattisgarh are aware of many traditional medicinal uses of full fed caterpillars. During the ethno entomological surveys conducted in different parts of Chhattisgarh, I have noted that the traditional healers of Gandai-Salewara and Narharpur region use frequently this insect as medicine. Most of the healers want to conserve this knowledge as secret knowledge. Many healers aware of my on-going documentation work disclosed many uses of this insect. The healers prepare special oil from the caterpillars. To prepare the oil, full fed caterpillars are boiled in base oil and when all watery contents evaporate, boiling is stopped and oil is kept for future use. As base oil Til (Sesame seed) oil is used. Few healers add the herbs with the caterpillars but majority of the healers claimed that the full fed caterpillars are enough to give the desirable effects. The special oil is used externally in treatment of ear related troubles. In treatment of Otorrhea, few drops of oil are applied into the ears. It is considered as one of the promising treatments. The healers also use the oil in form of massage externally in treatment of rheumatic pain. I have observed that many herb vendors sell this special oil to the traditional healers and natives of neighboring states without disclosing its method of preparation. I have tried this oil successfully in treatment of rheumatic pain. The traditional healers have their own criteria to select the potential caterpillars feeding on Sonpatha. The dull caterpillars are considered more promising. According to them, the agile caterpillars lose the valuable medicinal contents. I personally feel that there is a need of systematic research on this aspect in

order to find out the scientific explanations. In reference literatures, Hyblaea is not reported as medicinal insect. This research article is a first written document on this important aspect.

**[New comments added on April, 2014:** *Through recent surveys I have collected information about over 350 Formulations used both internally as well as externally in which the caterpillars are added as important ingredient. Most of the Healers purify the collected caterpillars before using it as medicine. The native Kamar Healers are aware of its food value. Many Healers practicing Traditional Entomophagy are aware of its use with Indigenous Medicinal rice. Adults are also used but not much popular like caterpillars. In many cases when Oroxylum as single remedy fail to give the desired effects these caterpillars are added in the formulations to make it strong.*

*In Blumea based Herbal Formulations used for blood related diseases Hyblaea is added as secondary ingredient. In Vanda based Herbal Formulations used for treatment of Parkinson 's disease Hyblaea is added as octonary ingredient. In Chlorophytum based Formulations for vitality Hyblaea is added tertiary ingredient. In Moringa based formulations used for Leucorrhea Hyblaea is added as nonary ingredient. For information on complete Formulations and dosage please visit [pankajoudhia.com](http://pankajoudhia.com)]*

Through the on-going ethnoentomological surveys, I am expecting more information on traditional medicinal uses of Hyblaea puera feeding on Sonpatha. You will find the details in coming articles.

Thank you very much for reading the article.

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## Citation

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**Traditional medicinal knowledge about *Aspidiotus glomeratus* (Hemiptera : Diaspididae) feeding on Khas (*Vetiveria zizanioides*) in Chhattisgarh, India. Updated Version**

**Pankaj Oudhia**

## Introduction

**Entomophagy and Entomotherapy are well known in Asia since generations. Unfortunately not much work has been done to document valuable Traditional Medicinal Knowledge about Insects. Pankaj Oudhia is documenting this knowledge since year 1990. The present note is updated version of his previously published online research document available through [pankajoudhia.com](http://pankajoudhia.com).**

**Keywords: Entomophagy; Entomotherapy; Medicinal Insects; Ayurveda; Chhattisgarh;**

According to the reference literatures, Khas (*Vetiveria zizanioides*) is a perennial grass under cultivation in many parts of India. Its dried roots are made into aromatic scented mats, fans and ornamental baskets and are also woven into curtains which when moistened, cool and scent the air. An essential oil, obtained from roots, is used in perfumery, cosmetics, soaps and for flavouring Shurbuts. The oil is stimulant, diaphoretic and refrigerant. The grass is also used in manufacture of paper and board. In Chhattisgarh, this grass is also used in manufacture of paper and board. In Chhattisgarh, this grass is well known. The dense forests are rich in natural

population of Khas. It grows as wasteland herb in many parts. The natives and traditional healers have in depth traditional medicinal knowledge about this herb. Although the wild population of almost all parts of Chhattisgarh is infested with *Aspidiotus* but its infestation is remarkably higher in Pendra and Bilaspur region. The traditional healers of these regions use this bug as folk medicine. Through the Ethno-entomological surveys conducted in these regions, I have collected valuable information on different aspects of this medicinal insect. The full fed bugs are used as medicine both internally as well as externally. For externally use the full fed bugs are collected and after drying converted into powder. In combination with Multani Mitti (Fuller's clay) the bug powder is used in form of aqueous paste in treatment of Migraine (Adhasisi). The aqueous paste is applied on affected parts and after drying washed with the help of water. According to the traditional healers, its repeated use helps in reducing the intense headache effectively in very less time. In treatment of painful swellings, the same combination is used. In treatment of painful boils, in this combination, *Sida acuta* leaves are added. This application absorbs extra heat from boils and suppresses it. The traditional healers of Pendra region informed that this bug powder is a promising blood purifier, if used internally. As other promising herbal alternatives are available, it is used less commonly by the healers. These traditional medicinal uses are very popular among the healers. This popularity clearly indicates its efficacy. The healers are not aware of its other medicinal uses. Through the on-going Ethno-entomological surveys, I am trying my best to gather more information on this important aspect.

**[New comments added on April, 2014:** *Through recent surveys I have collected information about over 300 Formulations in which *Aspidiotus* collected from Khas plays vital role. Although this bug is used in Traditional Entomophagy but it is less popular among the natives of young generations. As medicine *Aspidiotus* is added as secondary ingredient in Vanda, Fumaria, Paspalum, Tridax, Madhuca and Diospyros based Formulations. These Formulations are used internally for treatment of different types of Allergies. The Healers of North Chhattisgarh use Neem and Tribulus based solution to purify the bugs before use. In Ventilago based Formulations used for Osteoarthritis *Aspidiotus* is added as nonary ingredient. These Formulations are popular among the expert Healers. Old patients with poor vitality are not suggested to take these Formulations. The use of fresh bugs and freshly prepared Formulations are preferred but many Healers store it in bulk for round the year use. In Calotropis based Formulations *Aspidiotus* is added Septenary ingredients. These Formulations are used externally for treatment old wounds. When host plant Khas is used for treatment of Bleeding Piles these bugs are added in the Formulations in order to make it stronger. For complete Formulations and dosage please visit [pankajoudhia.com](http://pankajoudhia.com)]*

In reference literatures, these traditional medicinal uses have yet not been reported. I personally feel that there is a strong need to conduct a systematic research on these traditional uses so that

these can be used for the patients around the world.

Thank you very much for reading the article.

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## **Traditional medicinal knowledge about *Psilogramma menephron* Cr. feeding on Aparajita (*Nyctanthes arbor-tristis*) in Chhattisgarh, India. Updated Version.**

**Pankaj Oudhia**

### **Introduction**

**Entomophagy and Entomotherapy are well known in Asia since generations. Unfortunately not much work has been done to document valuable Traditional Medicinal Knowledge about Insects. Pankaj Oudhia is documenting this knowledge since year 1990. The present note is updated version of his previously published online research document available through [pankajoudhia.com](http://pankajoudhia.com).**

**Keywords: Entomophagy; Entomotherapy; Medicinal Insects; Ayurveda; Chhattisgarh;**

According to the reference literatures, Aparajita is a large shrub or small tree, grown as an ornamental. An orange-coloured dye, obtained from the flowers, is used for colouring silk and cotton. Maharshi Patanjali refers to cloth dyed of this flower as Sephalika. The flowers are strong and worn as hair ornaments and necklaces. Aparajita is a well known shrub in Chhattisgarh. For the traditional healers, it is a valuable folk medicine. They use its all parts as medicine both internally as well as externally in treatment of many diseases. *Psilogramma menephron* caterpillars feed on the leaves of Aparajita. The traditional healers of Chhattisgarh use the full fed caterpillars as medicine. Through the Ethno-entomological surveys conducted in different parts of Chhattisgarh, I have collected many valuable information on this important aspect. The traditional healers use the full fed caterpillars after purification. The objective of purification is to eliminate toxic material from the caterpillars. For purification, the caterpillars are dipped for specific period in herbal solution. The healers do not disclose the contents of the herbal solution. Many healers aware of my on-going documentation work claimed that many bitter herbs and its aqueous extracts are added in the solution as main ingredients. Through the on-going Ethno-entomological surveys I am trying my best to gather more details on this aspect. After purification, the caterpillars are dried and in form of powder stored for future use. The traditional healers of Chhattisgarh specialized in treatment of different types of fever use the caterpillar powder alone and in combination with medicinal herbs in treatment. In treatment of Malarial fever, at initial phase, the traditional healers of Nagri-Sihawa region give the caterpillar powder with Shahad (Honey). In advanced stage, the caterpillar powder is given internally in combination with medicinal herbs. Many times the healers use the insect powder in form of decoction.

**[New comments added on April, 2014:** *Through recent surveys I have collected information about over 500 Traditional Formulations for fever in which Psilogramma collected from Aparajita is added as important ingredient. In Tinospora based Formulations it is added as secondary ingredient where as in Mucuna based Formulations for old cases of Malaria it is added as tertiary ingredient. In Cissus based Formulations for new cases of Malarial fever it is*

*added as septenary ingredient. In Cynodon based Formulations for unexplained fever it is added as secondary ingredient. The patients having Bleeding Piles with such fever are not given these Formulations having Psilogamma. In Shorea based Formulations for Typhoid fever it is added as nonary ingredient. In Dalbergia based Formulations for old fever it is added as octonary ingredient. Many of these Formulations are considered incomplete without Psilogamma. The Healers have many herbal alternatives to Psilogamma but they prefer Psilogamma from all alternatives available. In Blumea based Formulations for puerperal fever it is added as quinary ingredient. In Sterculia based Formulations the Healers add it as senary ingredient. In over 125 Traditional Formulations used for malaria prevention it is added as quaternary ingredient and many times as secondary ingredient. For complete formulations and dosage please visit [pankajoudhia.com](http://pankajoudhia.com) ]*

The traditional healers of Rajnandgaon region informed that the caterpillar powder can be used successfully to flush out the intestinal worms effectively in very less time. As other promising alternatives are available, it is used less commonly. From documentation point of view it is an important information. Although Aparajita and this caterpillar are common in many parts of Chhattisgarh but the healers of other regions are not aware of its medicinal uses. The traditional healers of Chhattisgarh Plains are not aware of its other traditional uses.

**[New comments added on April, 2014:** *Through recent surveys I have collected information about over 55 Formulations for Vitiligo in which Psilogamma is added as important ingredient. These Formulations are used both internally as well as externally but the internal use is popular among the Healers. In Wattakaka based Formulations for Vitiligo it is added as nonary ingredient whereas in Wood Mushroom, collected from old Tendu trees, based Formulations it is added as tertiary ingredient. ]*

In reference literatures, *Psilogamma menephron* feeding on Aparajita is not mentioned as medicinal insect. The matter of appreciation is that the traditional healers of Chhattisgarh Plains are not only aware of its traditional medicinal uses but also using it in their routine practice. This is good sign.

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**Oudhia, Pankaj (2014). Traditional medicinal knowledge about Psilogamma menephron Cr. feeding on Aparajita (Nyctanthes arbor-tristis) in Chhattisgarh, India. Updated Version. [pankajoudhia.com](http://pankajoudhia.com)**

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***Jatropha* Leaf Miner *Stomphosistis thraustica* Meyrick (Gracillariidae; Lepidoptera) as medicinal insect in Chhattisgarh, India. Updated Version.**

**Pankaj Oudhia**

**Introduction**

**Entomophagy and Entomotherapy are well known in Asia since generations. Unfortunately not much work has been done to document valuable Traditional Medicinal Knowledge about Insects. Pankaj Oudhia is documenting this knowledge since year 1990. The present note is updated version of his previously published online research document available through [pankajoudhia.com](http://pankajoudhia.com).**

**Keywords: Entomophagy; Entomotherapy; Medicinal Insects; Ayurveda; Chhattisgarh;**

Ratanjot (*Jatropha curcas*) is a shrub or small tree, native to tropical America and is now naturalized in many parts of India. It is under cultivation as promising petro crop in many parts also. In Chhattisgarh, *Jatropha* is considered as medicinal herb. The natives and traditional healers have in depth traditional medicinal knowledge about this herb. I have mentioned in previous articles that on the basis of different agro-climatic region, *Jatropha* Plant types can be categorized according to these regions. Besides *Jatropha curcas*, many other species also grow naturally in Chhattisgarh. The traditional healers of Chhattisgarh use all parts of *Jatropha* both internally as well as externally as medicine but according to them there is a limitation in use of its leaves specially in case of internal use. The over or wrong dose results in harmful effects. Since long time, the healers were in search of herbs that can nullify the harmful effects of *Jatropha* leaves. The increasing infestation of *Jatropha* Leaf Miner *Stomphosistis thraustica* in *Jatropha* is although a bad news for the *Jatropha* growers but it is good news for the traditional healers utilizing the insect particularly the green coloured larva. The infestation of this insect has been observed by the researchers during 1997-1998 for the first time in Chhattisgarh Plains but the traditional healers using this insect as medicinal insect are aware of its presence since decades, in Chhattisgarh. They claim that this insect is present in almost all *Jatropha* regions. When this insect started attack on cultivated *Jatropha* the researchers paid attention on it. Like other pest, they are not thinking on its utilization aspect. They are screening the lethal insecticides and ways to dump it in crop fields for its control. During the ethnobotanical surveys conducted in different parts of Chhattisgarh, I have noted that the traditional healers of Chhattisgarh Plains are using *Jatropha* Leaf Miner as medicinal insect more commonly than the healers of other regions. The larvae collected just before the pupation is considered best for the preparation of medicine. The newly borne larvae are not used. After the collection of Larvae, it is dried in shade and after drying it is converted into dry powder and kept for future use. The traditional healers use this powder internally as Galactagogue. The powder is given internally with lukewarm water in order to increase the flow of milk in lactating women. Many healers use the decoction of powder to get more promising effects. The use of powder gives more promising results as compared to the *Jatropha* leaves, the healers claimed. Its use also reduces the duration of treatment. The traditional healers of Southern Chhattisgarh use the larvae in treatment of

common fever. For the preparation of medicine they dry the larvae in moon light and converted it into powder. This powder is taken internally in combination with other herbs mainly Kalmegh (*Andrographis paniculata*). According to the healers, in herbal combination, the larvae powder plays an important role. The traditional healers are in search of new uses of Jatropha Leaf Miner. I am in regular contact with these healers. You will get more details in coming articles.

[New comments added on April, 2014: *Through recent surveys I have collected new information about medicinal uses of Stomphosistis collected from Jatropha. The Traditional Healers of North add it as secondary ingredient in Traditional Formulations used for treatment of kidney diseases whereas the Healers of South Chhattisgarh use it as nonary and senary ingredients in Formulations for Kidney diseases. In combination with wild flowers Stomphosistis is used in form of decoction to treat kidney pain. Many Healers claim that they add it as important ingredient in Formulations used for management of Renal Calculi specially for its prevention. I have documented information about over 65 Formulations in which it is used with Medicinal Rice Tenduphool based Formulations. When Kodomillet based Formulations are used for treatment of Obesity Stomphosistis is added as octonary ingredient. In Sida based Formulations for Liver diseases it is added as tertiary ingredient. The Healers of Odisha are also aware of its medicinal uses but I have noted that the Formulations having it are used less frequently by them, The Healers of Jharkhand are also aware of this medicinal insect. In treatment of Mirgi i.e. Epilepsy they use Butea and Mitragyna based Formulations. In these Formulations Stomphosistis is added as fresh ingredient. In Formulations used for treatment of Vitex Toxicity it is added as key ingredient. Many Healers informed about its possible use in management of long term Datura Toxicity. For complete Formulations and dosage please visit [pankajoudhia.com](http://pankajoudhia.com) ]*

The herb collectors of Chhattisgarh informed me that many other insect species infest the Jatropha plants and few healers are aware of the medicinal properties of these insects. I am trying my best to meet these healers and document the traditional knowledge. The infestation of Jatropha Leaf Miner is reported in many parts of India but the researchers have not focused their studies on utilization aspect of this so called problematic insect. Through this article I would like to request the researchers to come forward and start research on this important aspect after meeting with the traditional healers of their regions.

Thank you very much for reading the article.

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**Traditional medicinal knowledge about *Poophilus costalis* Walk. (Hemiptera : Cercopidae) feeding on Asgandh (*Withania somnifera*) in Chhattisgarh, India. Updated Version.**

**Pankaj Oudhia**

## Introduction

**Entomophagy and Entomotherapy are well known in Asia since generations. Unfortunately not much work has been done to document valuable Traditional Medicinal Knowledge about Insects. Pankaj Oudhia is documenting this knowledge since year 1990. The present note is updated version of his previously published online research document available through [pankajoudhia.com](http://pankajoudhia.com).**

**Keywords: Entomophagy; Entomotherapy; Medicinal Insects; Ayurveda; Chhattisgarh;**

*Poophilus costalis* is a polyphagous insect. In Chhattisgarh, it commonly attacks on Rice and Sorghum. According to the traditional healers of Southern Chhattisgarh, this insect also attacks on Asgandh (*Withania somnifera*) in wild. In cultivated fields of Asgandh, in Chhattisgarh Plains I have yet not seen its infestation. The traditional healers of Southern Chhattisgarh use the *Poophilus costalis* feeding on Asgandh as medicinal insect. Through the Ethno-entomological surveys conducted in different parts of Chhattisgarh, particularly in Southern Chhattisgarh, I have collected some important information on traditional medicinal uses of this insect. According to the traditional healers, they are aware of its promising aphrodisiac properties since generations. As aphrodisiac, it is used both internally as well as externally. The full fed bugs are used both in fresh and dry form. Internally, it is used in dry form. The freshly collected bugs are dried in shade and converted into powder. The powder is added in popular herbal combinations used as aphrodisiac, as main ingredient. The healers informed that most of the formulations are incomplete without this insect powder. You will be surprised to know that Asgandh herb is not added in these formulations. Few healers are in favour of its use alone but most of the healers use

it in combination with medicinal herbs. They explained that the Tasir (Nature) of this powder is hot and if used alone, in majority of the cases it can cause harms. The presence of medicinal herbs in the formulations helps in nullifying the harmful effects. They further informed that this insect powder nullifies the harmful effects of many herbs also. Externally, the freshly collected full fed bugs are used in form of special oil. The bugs are dipped in Sarson (Mustard seed) oil upto forty days. During this period, the solution is kept under sunlight. After forty days, the solution is filtered and special oil is collected. This special oil is used to massage the genitals. Instead of its use in amusement the traditional healers recommend this special oil as medicine, to the patients having poor sexual desire. According to the healers, both internal as well as external uses at a time cure the trouble effectively in very less time. In general, the traditional healers do not disclose this formulation to any one even to their blood relatives. The long queue of the patients clearly indicated the efficacy of this insect powder based medicine.

[New comments added on April, 2014: *In over 1300 Traditional Formulations used for the patients recovering from blood cancer Poophilus is added as important ingredient. I have collected valuable knowledge about this medicinal insect during recent surveys. Poophilus feeding on Withania is considered as Gift of God by the Healers. In areas where it is difficult to find the Healers wait for the Herb vendors and Healers of other regions. It is used as secret ingredient in most the Formulations. In Strychnos based Formulations used for treatment of Gloriosa toxicity Poophilus is added as tertiary ingredient. In Entada based Formulations for managing intense thirst Poophilus is added as nonary ingredient. The Traditional Healers of Odisha and Jharkhand and even of Andhra Pradesh are also aware of its presence in Entada based Formulations. In Ficus based Formulations used for diseases of digestive system Poophilus is added as quinary ingredient. These Formulations are popular among the Healers of young generation. In Cuscuta based Formulations used for treatment of gynecological diseases it is added as senary ingredient, Many times it is added as secondary and quaternary ingredients. The Healers of North Chhattisgarh use this insect in Traditional Formulations used for blood related diseases. For complete Formulations and dosage please visit [pankajoudhia.com](http://pankajoudhia.com)*]

These traditional medicinal uses have not been reported in reference literatures. Also, *Poophilus costalis* feeding on other hosts has yet not been reported as medicinal insect. As this insect is common in many parts of the world, I am expecting that the information on traditional medicinal uses of *Poophilus* will be of great use for the researchers around the world.

Thank you very much for reading the article.

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## Citation

**Oudhia, Pankaj (2014). Traditional medicinal knowledge about *Poophilus costalis* Walk. (Hemiptera : Cercopidae) feeding on Asgandh (*Withania somnifera*) in Chhattisgarh, India. Updated Version. [pankajoudhia.com](http://pankajoudhia.com)**

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**Traditional medicinal knowledge about medicinal insect *Spodoptera litura* (Fabricius, 1775) [Noctuidae: Lepidoptera] feeding on Bramhi (*Bacopa monnieri*), in Chhattisgarh, India. Updated Version.**

**Pankaj Oudhia**

## Introduction

**Entomophagy and Entomotherapy are well known in Asia since generations. Unfortunately not much work has been done to document valuable Traditional Medicinal Knowledge about Insects. Pankaj Oudhia is documenting this knowledge since year 1990. The present note is updated version of his previously published online research document available through [pankajoudhia.com](http://pankajoudhia.com).**

**Keywords: Entomophagy; Entomotherapy; Medicinal Insects; Ayurveda; Chhattisgarh;**

Bramhi is a prostrate herb distributed in damp, marshy areas throughout India. Bramhi holds a reputed position as medicinal herb in different systems of medicine in India. According to the reference literatures, the active principle Sersaponin, resembles reserpine and Chloromazine in its central action and is reputed to be promising new tranquilizer. The dense forests of Chhattisgarh are rich in natural population of Bramhi herb. The natives and traditional healers have in depth traditional medicinal knowledge about this herb. Bramhi is under cultivation also in fairly large areas. The infestation of *Spodoptera litura* was first observed by the herb growers of Chhattisgarh Plains in the year 1999. Every year the area under its infestation is increasing. When the traditional healers of Chhattisgarh specialized in use of medicinal insects were contacted, they replied that in wild population the attack of *Spodoptera* caterpillars is very common and many healers are utilizing the full fed caterpillar as medicinal insect. During the ethnoentomological surveys conducted in different parts of Chhattisgarh, I have noted that the traditional healers of Chhattisgarh Plains and Southern parts are more aware of different medicinal uses of *Spodoptera*. They use it externally in most of the cases. Its uses in treatment of Adhasisi (Migraine) and Mirgi (Epilepsy) are most common. The healers collect the full fed caterpillars and after killing, dry it in shade. After drying, the caterpillars are converted into powder and stored for future use. In treatment of Adhasisi, they mix the powder and Sonth (Dried Ginger) in equal proportion and with the help of water, prepare an aqueous paste. This paste is applied externally on painful parts. According to the traditional healers, this combination can be used in normal times also in order to prevent the attack. They further informed that Sonth alone can serve the problem but the addition of caterpillar powder result in synergistic effects. I have tried this combination many times successfully. In treatment of Mirgi (Epilepsy), the healers use the caterpillar powder in combination with dry leaf powder of Kukronda (*Blumea lacera*). During the attack, the combination is burnt and smoke is directed towards the patient's nose. This smoke provides great relief to the patient. The traditional healers are not aware of its other medicinal uses. As the infestation of this insect is not very common in Bramhi herbs, many herb vendors collect and sell the full fed caterpillars in form of dry powder to the traditional healers. For the healers, there is no testing method to confirm that the powder is of the caterpillars fed on Bramhi leaves but it is a faith, they believe on the herb vendors.

[New comments added on April, 2014: Through recent surveys I have collected new information about medicinal uses of *Spodoptera feeding on Bacopa*. *Spodoptera* is added as important ingredient in over 1800 Formulations used at different stages of Epilepsy. Most of these Formulations are used internally. In *Acorus* based Formulations *Spodoptera* is added as secondary ingredient by the Healers of Bastar whereas the Healers of Odisha add it as nonary ingredient. In *Mucuna* based Formulations it is added as tertiary ingredient. The Healers of Jharkhand having expertise in treatment of advanced stage of Epilepsy add it as secondary ingredient in *Mucuna* based Formulations. In *Cassia* based Formulations it is added quinary

*ingredient. In these Formulations roots of 50 different species of herbs are used with Spodoptera collected from Bramhi. These Formulations are popular among the Healers. In Ocimum based Formulations it is added as septenary ingredient by the Healers of North Chhattisgarh. In Telia Kand based Formulations used in treatment of complicated cases of Epilepsy it is added as secondary ingredient. The Healers claim that without it these Formulations fail to give the desired effects. In Cyperus based Formulations it is added as octonary ingredient. It is also added as tertiary ingredient specially when these Formulations are used to treat young patients. In Vanda based Formulations it is added as nonary ingredient whereas in Ailanthus based Formulations it is added as quaternary ingredient. It seems that there is endless knowledge present among the Healers about this medicinal insect. The efforts are on to document this knowledge. Please visit [pankajoudhia.com](http://pankajoudhia.com) for complete Formulations and information on dosage.]*

These traditional medicinal uses of *Spodoptera litura* feeding on Bramhi have yet not been reported in reference literatures. This research article is the first written document on this aspect. Through the on-going ethnoentomological surveys I am trying my best to gather more information on this important aspect. You will find the details in coming articles.

Thank you very much for reading the article.

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**Traditional medicinal knowledge about Tussock caterpillar *Porthesia xanthorrhoea* Kollar feeding on medicinal rice variety Bhejri in Chhattisgarh, India. Updated Version.**

**Pankaj Oudhia**

## Introduction

Entomophagy and Entomotherapy are well known in Asia since generations. Unfortunately not much work has been done to document valuable Traditional Medicinal Knowledge about Insects. Pankaj Oudhia is documenting this knowledge since year 1990. The present note “Traditional medicinal knowledge about Tussock caterpillar *Porthesia xanthorrhoea* Kollar feeding on medicinal rice variety Bhejri in Chhattisgarh, India.” is updated version of his previously published online research document available through [pankajoudhia.com](http://pankajoudhia.com).

**Keywords: Entomophagy; Entomotherapy; Medicinal Insects; Ayurveda; Chhattisgarh;**

Chhattisgarh is known as 'The Rice bowl of India'. Chhattisgarh is considered as one of the origins from where Rice has spread all over the world. The state is rich in Rice diversity. In earlier days, many rice varieties of medicinal importance were under cultivation in Chhattisgarh. The natives and traditional healers have in depth traditional medicinal knowledge about the medicinal varieties. In many parts of the Chhattisgarh, the healers are still using medicinal rice varieties, to treat many common diseases. During the Ethno-entomological surveys conducted in different parts of Chhattisgarh, I have observed that the senior traditional healers of Chhattisgarh

Plains aware of medicinal rice varieties use the insects feeding on these varieties as medicinal insects. Through the interactions with the traditional healers, I got information on some unique uses of Tussock caterpillars feeding on medicinal rice variety Bhejri. I have mentioned in previous articles that the grains of Bhejri are used for early removal of placenta in case of cattle. The grains are given in combination with Linseed and Gud (Jaggery) internally. Tussock caterpillars feed on rice leaves. According to the traditional healers the caterpillars collected from organically grown rice plants are collected and after killing, the caterpillars are dipped in decoction, prepared by boiling the Bhengra (*Eclipta alba*), a common rice weed, leaves in water. After one hour, the caterpillars are taken out and dried in sunlight. After complete drying, by crushing, powder is prepared. The powder is stored for future use. The traditional healers use this powder both internally as well as externally in treatment of many common troubles. The powder is added as main ingredients in popular herbal combinations used to stop all types of bleeding. According to the healers, the powder plays an important role in these combinations. In combination with medicinal herbs, this powder is used internally in treatment of Safed Pani (Leucorrhea), a common trouble in women. Externally, in combination with Kukronda (*Blumea lacera*) leaves, Kali Mirch (*Piper nigrum*) and Cow ghee, the powder is used in treatment of Bavasir (Piles). Its regular use not only checks the bleeding but also helps in reducing the intense pain. At present, Bhejri is not under cultivation in Chhattisgarh. The Tussock caterpillars feeding on other rice varieties are not considered suitable by the traditional healers. This is the reason, the use of Tussock caterpillars as medicine is becoming a thing of past. The traditional healers when informed about the medicinal insect of Bhejri, I showed them the coloured photographs of Rice insects around the world. They identified Tussock caterpillars as Bhejri Kidwa. I have yet not seen its practical uses. The senior traditional healers, most of them are over 80 years old, are eager to demonstrate the efficacy of medicinal insect. Their deep faith in the traditional uses is enough to convince me.

[New comments added on April, 2014: *Through recent surveys I have collected information about over 2100 Traditional Formulations in which Porthesia collected from medicinal rice Bhejri is added as important ingredient. These Formulations are used for acute as well as chronic cases of Bleeding Piles. In Cissus based Formulations Porthesia is added as secondary ingredient. In Cissus based Formulations both Bhejri and Porthesia play vital role. In Tamarindus based Formulations used for complicated cases of Bleeding Piles Porthesia is added as quinary ingredient. Many times based on the condition on the patients it is added as secondary ingredient. In Madhuca based Formulations Porthesia is added as quaternary ingredient. These Formulations are popular among the Traditional Healers of young generation. The Healers of Odisha add Porthesia as nonary ingredient in Madhuca based Formulations. In Calotropis based Formulations Porthesia is used fresh and added as septenary ingredients. In Blumea based Formulations of North Chhattisgarh Porthesia is added as secondary and quaternary ingredients whereas the Healers of Bastar add it as octonary ingredient. In Tacca based Formulations used to stop the excessive bleeding in this disease add Porthesia as secondary ingredient.*

*I have noted during surveys that Porthesia is used in Traditional Formulations used to manage old fever. In modern days the so-called unexplained fever is easily managed by the Formulations having this insect. I have documented information about over 300 Formulations in which Porthesia plays key role. In Ventilago based Formulations Neem and Porthesia play important*



*role whereas in Trapa based Formulations Cynodon and Porthesia play the main role. For information on complete Formulations and dosage please visit [pankajoudhia.com](http://pankajoudhia.com)]*

The traditional medicinal uses of Tussock caterpillars on medicinal rice variety Bhejri have yet not been reported in reference literatures. I personally feel that there is a strong need to popularize these promising uses after systematic research.

Thank you very much for reading the article.

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## Citation

**Oudhia, Pankaj (2014). Traditional medicinal knowledge about Tussock caterpillar *Porthesia xanthorrhoea* Kollar feeding on medicinal rice variety Bhejri in Chhattisgarh, India. Updated Version. [pankajoudhia.com](http://pankajoudhia.com)**

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**Traditional medicinal knowledge about Tortoise beetle *Silana farinosa* (Boheman) [Cassidinae: Coleoptera] feeding on *Murraya koenigii* leaves, in Chhattisgarh, India. Updated Version.**

**Pankaj Oudhia**

## Introduction

Entomophagy and Entomotherapy are well known in Asia since generations. Unfortunately not much work has been done to document valuable Traditional Medicinal Knowledge about Insects. Pankaj Oudhia is documenting this knowledge since year 1990. The present note “Traditional medicinal knowledge about Tortoise beetle *Silana farinosa* (Boheman) [Cassidinae: Coleoptera] feeding on *Murraya koenigii* leaves, in Chhattisgarh, India. Updated Version.” is updated version of his previously published online research document available through [pankajoudhia.com](http://pankajoudhia.com).

**Keywords:** Entomophagy; Entomotherapy; Medicinal Insects; Ayurveda; Chhattisgarh;

Kadhi Patta (*Murraya koenigii* syn. *Bergera koenigii*) is a large shrub or small tree and it is under cultivation in many parts of India. Its leaves are popularly used for flavouring curries. In Chhattisgarh, it is planted in home gardens. The natives and traditional healers are aware of its many medicinal properties and uses. In reference literatures related to different systems of medicine in India, *Murraya* holds a reputed position as medicinal herb. In many parts of Chhattisgarh particularly in Southern region, the Tortoise beetle *Silana farinosa* feeds on *Murraya* plant. Its infestation not causes much damage to the plant as in other parts of India. During the Ethno-entomological surveys conducted in different parts of Chhattisgarh, I have noted that the traditional healers specialized in treatment of Mirgi (Epilepsy) use the grub and adult of this beetle in treatment. They collect the grubs and adults and dry it in shade. After drying, the powder is prepared and stored for future use. Only full fed grubs and adults are used. In case of attack, the powder is burnt and patients are suggested to inhale the fumes. It is considered as one of the promising first aid measures. The healers boil the freshly collected grubs and adults in base oil with medicinal herbs and when all watery contents evaporate the boiling is stopped and special oil is used externally. The special oil is massaged on soles. It is considered as promising supplement treatment with main treatment of Mirgi. As base oil, Til (Sesame seed) oil is used. According to the traditional healers, the grubs and beetles play an important role in making the special oil medicinally rich. In general, the grubs and adults are mixed in equal proportion but grubs are more preferred by the healers as compared to the beetles. The traditional healers are not aware of its other medicinal uses. I have observed during the surveys that this specific use is now limited to few traditional healers. The other insect species feeding on *Murraya* are also used as medicine but the healers consider these species less effective in treatment of Mirgi.

[New comments added on April, 2014: *Through recent surveys I have collected information about over 3000 Traditional Formulations in which Silana is added as important ingredient. These Formulations are used in treatment of different stages of Epilepsy. In Ipomoea based Formulations Silana is added as tertiary ingredient. In Tectona based Formulations Silana grubs are added as secondary ingredient. In these Formulations adults are not used. In Ocimum based Formulations Silana is added as quinary ingredient. These Formulations are popular among the Traditional Healers. In general these Formulations are used for old cases of Epilepsy. In Leucas based Formulations Silana adults are added as nonary ingredient. The Healers claim that its presence in the Formulations enhances the performances of other herbal ingredients. In Madhuca based Formulations Silana grubs are added as quaternary ingredient.*

*Silana is also used in Formulations for Blood related diseases in Indian Traditional Healing. In Amaranthus based Formulations Silana grubs are added as secondary ingredient. In Pueraria based Formulations of Amarkantak it is added as septenary ingredient. In Entada based Formulations of Odisha it is added as Octonary ingredient. In Sauromatum based Formulations of Bastar it is added as senary ingredient. In Cuscuta based Formulations of Chhattisgarh Plains it is added as tertiary ingredient.*

*In treatment of old wounds Silana is used both internally as well as externally. I have documented information about over 500 Formulations in which Silana is added as key ingredient. In Oxalis based Formulations it is added as secondary ingredient. In Swertia based Formulations it is added as quaternary ingredient. For information on complete Formulations and dosage please visit [pankajoudhia.com](http://pankajoudhia.com)]*

In reference literatures, *Silana farinosa* is not mentioned as medicinal insect. The traditional medicinal uses of *Silana farinosa* feeding on *Murraya* leaves have also not been reported.

Thank you very much for reading the article.

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# **Poplar defoliator *Clostera cupreata* Butler (Notodontidae: Lepidoptera) as medicinal insect in Chhattisgarh, India. Updated Version.**

**Pankaj Oudhia**

## **Introduction**

**Entomophagy and Entomotherapy are well known in Asia since generations. Unfortunately not much work has been done to document valuable Traditional Medicinal Knowledge about Insects. Pankaj Oudhia is documenting this knowledge since year 1990. The present note “Poplar defoliator *Clostera cupreata* Butler (Notodontidae: Lepidoptera) as medicinal insect in Chhattisgarh, India.” is updated version of his previously published online research document available through [pankajoudhia.com](http://pankajoudhia.com).**

**Keywords: Entomophagy; Entomotherapy; Medicinal Insects; Ayurveda; Chhattisgarh;**

Poplar (*Populus deltoides*) is a newly introduced tree species in Chhattisgarh. According to the reference literatures, *Populus* sp. are deciduous, dioecious trees commonly known as Poplar, Aspen and Cotton wood, chiefly in North temperate zone with some species in sub tropical region. About 10 species of *Populus* grow naturally in Chhattisgarh. In Chhattisgarh it was introduced by the authorities in the year 1994. It was promoted as timber yielding tree. Its timber is used for Match-splints, artificial limbs, cricket-bats, packing cases, ply woods and pulp. The Poplar defoliator *Clostera cupreata* is well known pest of this species. When this insect infested on Poplar trees for the first time I collected the different stages of this insect and presented it to the traditional healers of Chhattisgarh specialized in use of insects as medicine. As Poplar was new plant for them, initially they hesitated to evaluate its medicinal potential but later when I planted some seedlings at the regions where they visit frequently in search of medicinal herbs they started taking interest in both the Poplar tree and Poplar defoliator. After continuous research, the traditional healers of Chhattisgarh found the male and female catkins of poplar useful in treatment of respiratory trouble. In reference literatures Poplar is not mentioned as medicinal tree. The traditional healers of present generation have discovered its new use. Many healers have found the dry leaf powder of Poplar very promising in treatment of Piles (Bavasir) but due to some toxic contents they use it in combination with other herbs. The Poplar defoliator has solved this problem. Now the traditional healers are using the full fed caterpillars of Poplar defoliator in form of dry powder in treatment of Bavasir. They are applying it externally in form of aqueous paste. Opposite to its leaves that are used in combination with other herbs, the healers are using the caterpillars alone. Many healers claimed that in combination with other medicinal herbs, the caterpillars can be used externally in treatment of skin related troubles. They are conducting trials for confirmation. These promising medicinal uses have added the name of

Poplar defoliator in the list of medicinal insects. As poplar and poplar defoliator are common in many parts of the world, I am confident that the medicinal uses developed by the traditional healers of Chhattisgarh will be of great help for the researchers and farmers around the world.

[New comments added on April, 2014: *Through recent surveys in different parts of India I have documented information about over 400 Formulations for Piles in which Clostera is added as important ingredient. In Medicinal Mite Trombidium based Formulations popular among the Traditional Healers of Chhattisgarh and Odisha Clostera is added as secondary, tertiary and nonary ingredients. These Formulations are used internally. In Stereospermum based Formulations it is added as quinary ingredient. These Formulations are used both internally as well as externally. In Eclipta based Formulations it is added as septenary ingredient. In Schleicheria based Formulations it is added as senary ingredient. In Famous 5 wild orchids based Formulations of Central India it is added as secret ingredient mostly in form of secondary ingredient. In Medicinal Rice Maharaji based Formulations it is added as octonary ingredient. In Acacia based Formulations used at early stage of disease Clostera is added as quaternary ingredient. In Bombax based Formulations of Maharashtra it is added as nonary ingredient. In Cannabis based Formulations it is added as octonary ingredient.*

*Clostera collected from Poplar is also used for many other diseases. I found it as secret ingredient in Formulations of Haridwar. These Formulations are used by Yogis for treatment of Vitiligo. These Formulations are used both internally as well as externally but internal use is preferred. From the Healers and herb vendors of Punjab I got information about Phalaris based Formulations for blood related diseases in which Clostera is added as secret ingredient. In Careya based Formulations of Chhattisgarh it is added as secondary ingredient. These Formulations require judicious use as the ingredients are considered toxic in nature. These Formulations are used to treat the wound of poisonous arrows. For information on complete Formulations and dosage please visit [pankajoudhia.com](http://pankajoudhia.com).]*

Thank you very much for reading the article.

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**Traditional medicinal knowledge about Turmeric Beetles in Chhattisgarh, India. Updated Version.**

**Pankaj Oudhia**

## Introduction

Entomophagy and Entomotherapy are well known in Asia since generations. Unfortunately not much work has been done to document valuable Traditional Medicinal Knowledge about Insects. Pankaj Oudhia is documenting this knowledge since year 1990. The present note “Traditional medicinal knowledge about Turmeric Beetles in Chhattisgarh, India.” is updated version of his previously published online research document available through [pankajoudhia.com](http://pankajoudhia.com).

**Keywords: Entomophagy; Entomotherapy; Medicinal Insects; Ayurveda; Chhattisgarh;**

Haldi or Turmeric (*Curcuma longa* syn. *C. domestica*) is a perennial herb under cultivation in many parts of India. Its rhizomes are used for food seasoning and as condiment. After harvesting, raw Turmeric rhizomes are cured properly before the commercial product is obtained. According to the reference literatures, India is the largest grower of Turmeric. Turmeric has wide medicinal

uses. According to Ayurveda, Turmeric is pungent, bitter, heating, laxative, anthelmintic, tonic, alexiteric, emollient and improves complexion. It is useful in treatment of blood diseases, leucoderma, scabies, urinary discharges, inflammations, small-pox, swellings, sprains etc. According to Unani system of medicine, Turmeric is a bitter, carminative, maturant, diuretic, good for liver affections, jaundice, urinary discharges etc. Turmeric is well known herb in Chhattisgarh. Many wild species of Turmeric have been reported in natural forests of Chhattisgarh. The natives and traditional healers have in depth traditional medicinal knowledge about this herb. During the Ethno-entomological surveys conducted in different parts of Chhattisgarh I have noted that the traditional healers of Southern Chhattisgarh use the Turmeric beetles i.e. *Oryzaephilus surinamensis* (Linne), *Lasioderma serricorne* (Fab.), *Araecerus fasciculatus* De Geer and *Tribolium castaneum* (Herbst) as medicinal insects. These beetles feed on Turmeric rhizomes by making holes in it. According to the traditional healers these beetles, after feeding, possess 'refined' properties of Haldi (Turmeric). The healers use both grub and adults. After killing it, they dry it in shade and in form of dry powder keep it with them for use as medicine. Many healers dip the dead grubs and adults in herbal solutions in order to eliminate its toxic contents. The healers informed that the use of Turmeric in treatment of old wounds is having its own limitations. The dry powder of beetles gives more satisfactory results in many cases. The dry powder is used in same way like Turmeric powder. Many times it is used with Turmeric powder in order to increase its efficacy. The traditional healers of Southern Chhattisgarh specialised in treatment of different types of cancer, add the dry powder, prepared by mixing the full fed adults of all four species (mixed in equal proportion), in popular herbal combinations used to dress the cancerous wounds. The healers are aware that the dry powder plays an important role in these herbal combinations. Many healers consider the dry powder as promising tooth powder but as other promising alternatives, are available it is used less commonly. From documentation point of view it is important information.

[New comments added on April, 2014: *Through recent surveys I have collected information about over 700 Formulations used for treatment of old wounds including cancerous wound in which these beetles are used as important ingredient. In Berberis based Formulations these beetles are added as secondary ingredient. In these Formulations Azadirachta and Pongamia are also added as secondary ingredient. In Alstonia based Formulations these beetles are added as tertiary ingredient. In Madhuca and Shorea based Formulations for Cancerous wound these beetles are added as quaternary ingredient. In Chlorophytum and Lepidium based Formulations these beetles are added as quinary ingredient. These Formulations are popular among the Traditional Healers. The Healers of Odisha and Andhra Pradesh are also aware of these Formulations. In Curculigo and Costus based Formulations these beetles are added as septernary ingredient. In Hedychium based Formulations these beetles are added as octonary ingredient. Before adding the beetles in these Formulations the Healers dip it in ten types of Herbal Formulations for many days. Many Healers use it without purification also. Turmeric raised by chemical farming is not preferred for collection of these Beetles. In Lannea based*

*Formulations for Diabetes wound these beetles are added as nonary ingredient. The Healers claim that presence of these beetles in Formulations enhances the performances of other ingredients. In Careya based Formulations these beetles are added as quinary ingredient along with Terminalia chebula. These Formulations are used both internally as well as externally. In Sterculia based Formulations these beetles are added as tertiary ingredient.*

*These beetles are also added in over 3000 Formulations used for treatment of different diseases. In Bryophyllum based Formulations for Kidney related diseases these beetles are added as quinary ingredient. In Tribulus based Formulations for diseases of male genitals these beetles are added as tertiary ingredient. For complete information on Formulations and dosage please visit [pankajoudhia.com](http://pankajoudhia.com)]*

In reference literature all Turmeric beetles have been described as problematic pest. The information on its traditional medicinal uses is coming for the first time among the world community. As very few traditional healers are aware of these traditional uses, I personally feel that it is essential to start a systematic research on different aspects of these medicinal insects without any delay.

Thank you very much for reading article.

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## **Citation**

**Oudhia, Pankaj (2014). Traditional medicinal knowledge about Turmeric Beetles in Chhattisgarh, India. Updated Version. [pankajoudhia.com](http://pankajoudhia.com)**

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**Traditional medicinal knowledge about *Metanastria hyrtaca* C. (Lepidoptera: Lasiocampidae) feeding on Harshringar (*Nyctanthes arbor-tristis*) in Chhattisgarh, India. Updated Version.**

**Pankaj Oudhia**

## **Introduction**

Entomophagy and Entomotherapy are well known in Asia since generations. Unfortunately not much work has been done to document valuable Traditional Medicinal Knowledge about Insects. Pankaj Oudhia is documenting this knowledge since year 1990. The present note “Traditional medicinal knowledge about *Metanastria hyrtaca* C. (Lepidoptera: Lasiocampidae) feeding on Harshringar (*Nyctanthes arbor-tristis*) in Chhattisgarh, India.” is updated version of his previously published online research document available through [pankajoudhia.com](http://pankajoudhia.com).

**Keywords: Entomophagy; Entomotherapy; Medicinal Insects; Ayurveda; Chhattisgarh;**

## **Traditional Healing**

Harshringar (*Nyctanthes arbor-tristis*) is a well known herb in Chhattisgarh. It is generally planted as ornamental herb in home gardens. The natives and traditional healers are aware of its medicinal properties and uses. Its different parts play important role in popular herbal combinations. Many insect species infest Harshringar. I have mentioned in previous articles that many insects feeding on Harshringar are used as medicinal insects. *Metanastria* is one of these insects. The traditional healers of Chhattisgarh are aware of its medicinal uses. Although it is used less frequently but from documentation point of view it is important information. Through the Ethno-entomological surveys conducted among these traditional healers in recent past, I have collected valuable information on this aspect. The full fed grayish caterpillars are used both internally as well as externally. For internal use it is purified by dipping it in herbal solution upto long time in order to eliminate its toxic contents. As traditional secret, the traditional healers do not want to disclose the ingredients of solution. Internally, the caterpillar powder is taken in form of dry powder. It is popularity used to flush out the intestinal worms. Before giving this powder with Shahad (Honey), the patients are given a piece of Gud (Jaggery). According to the traditional healers a piece of Gud brings all the worm at one place inside the body and when caterpillar powder is given after sometimes, it flushes out all the worms effectively in very less time. The healers are not in favour of using caterpillar powder with medicinal herbs.

New comments added on May 1, 2007

Through recent surveys I have collected information about tens of traditional herbal formulations in which this caterpillar is added in powder form as important ingredient. Unfortunately most of these formulations are not in use by the Healers of present generation. Senior Healers informed that most of these formulations are not considered incomplete without this insect. These formulations were in use in treatment of Leucoderma. The other ingredients of these formulations are still in use in different formulations but this insect is used less commonly. The Healers have reason for it. According to them it is hard to locate this insect feeding on Harshringar. The Healers having this plant as garden plant in their home gardens informed that for medicine it is required in bulk. Due to these constraints they are not using it. When I suggested rearing of this insect for bulk supply they replied that it is possible but as other promising alternatives of this insect is available easily they don't adopt rearing method. From documentation point of view I feel that it is necessary to put the information about these formulations in this article. Formulations are given in next section of this article. All formulations are used internally in treatment of Leucoderma by the Healers of different regions. It is used in initial stages along with external treatment. Small children and pregnant women are

not allowed to use insect based formulations. As mentioned in the article that Healers use many herbs to nullify the harmful effects of this insect. Through recent surveys I have collected information on this aspect also. In general Healers dip the insects in cow urine for few hours after collection. After it shade dried insects are converted into powder and used in medicine. *Datura alba*, *Tridax procumbens*, *Cyperus rotundus*, *Martynia annua*, *Amaranthus viridis*, *Ipomoea aquatica*, *Ipomoea quamoclit* etc. are the herbs added in insect based formulations for this purpose.

In treatment of sciatica, the caterpillar powder is added in popular herbal combinations used in form of decoction but as other promising alternatives are available it is used less commonly. The traditional healers are not aware of its other medicinal uses. Through the on-going Ethno-entomological surveys I am trying my best to gather more information on this important aspect.

In reference literatures, *Metanastria hyrtaca* feeding on Harshringar is not mentioned as insect. It seems that the present research article is the first written document on this aspect.

*Metanastria hyrtaca* (Lepidoptera: Lasiocampidae) based Traditional Formulations used in treatment of Leucoderma by the Traditional Healers of Indian state Chhattisgarh.

Herbal Formulation No. 1- *Metanastria hyrtaca*+*Datura alba*+*Chenopodium album*

Herbal Formulation No. 2- *Metanastria hyrtaca*+*Datura alba*+*Gloriosa superba*

Herbal Formulation No. 3- *Metanastria hyrtaca*+*Datura alba*+*Psoralea corylifolia*

Herbal Formulation No. 4- *Metanastria hyrtaca*+*Datura alba*+*Lawsonia alba*

Herbal Formulation No. 5- *Metanastria hyrtaca*+*Datura alba*+*Pterocarpus marsupium*

Herbal Formulation No. 6- *Metanastria hyrtaca*+*Datura alba*+*Terminalia chebula*+*Terminalia bellirica*+*Emblica officinalis*

Herbal Formulation No. 7- *Metanastria hyrtaca*+*Datura alba*+*Azadirachta indica*

Herbal Formulation No. 8- Metanastria hyrtaca+Datura alba+Rubia cordifolia

Herbal Formulation No. 9- Metanastria hyrtaca+Datura alba+Ventilago denticulata

Herbal Formulation No. 10- Metanastria hyrtaca+Datura alba+Bryonia laciniosa

Herbal Formulation No. 11- Metanastria hyrtaca+Datura alba+Hibiscus rosa-sinensis

Herbal Formulation No. 12- Metanastria hyrtaca+Datura alba+Curcuma longa

Herbal Formulation No. 13- Metanastria hyrtaca+Datura alba+Commelina benghalensis

Herbal Formulation No. 14- Metanastria hyrtaca+Datura alba+Chenopodium album+Ipomoea aquatica+Martynia annua+Boerhavia diffusa

Herbal Formulation No. 15- Metanastria hyrtaca+Datura alba+Gloriosa superba+Ipomoea aquatica+Martynia annua+Boerhavia diffusa

Herbal Formulation No. 16- Metanastria hyrtaca+Datura alba+Psoralea corylifolia+Ipomoea aquatica+Martynia annua+Boerhavia diffusa

Herbal Formulation No. 17- Metanastria hyrtaca+Datura alba+Lawsonia alba+Ipomoea aquatica+Martynia annua+Boerhavia diffusa

Herbal Formulation No. 18- Metanastria hyrtaca+Datura alba+Pterocarpus marsupium+Ipomoea aquatica+Martynia annua+Boerhavia diffusa

Herbal Formulation No. 19- Metanastria hyrtaca+Datura alba+Terminalia chebula+Terminalia bellirica+Emblica officinalis+Ipomoea aquatica+Martynia annua+Boerhavia diffusa

Herbal Formulation No. 20- Metanastria hyrtaca+Datura alba+Azadirachta indica+Ipomoea aquatica+Martynia annua+Boerhavia diffusa

Herbal Formulation No.21- Metanastria hyrtaca+Datura alba+Rubia cordifolia+Ipomoea aquatica+Martynia annua+Boerhavia diffusa

Herbal Formulation No. 22- Metanastria hyrtaca+Datura alba+Ventilago denticulata+Ipomoea aquatica+Martynia annua+Boerhavia diffusa

Herbal Formulation No. 23- Metanastria hyrtaca+Datura alba+Bryonia laciniosa+Ipomoea aquatica+Martynia annua+Boerhavia diffusa

Herbal Formulation No. 24- Metanastria hyrtaca+Datura alba+Hibiscus rosa-sinensis+Ipomoea aquatica+Martynia annua+Boerhavia diffusa

Herbal Formulation No. 25- Metanastria hyrtaca+Datura alba+Curcuma longa+Ipomoea aquatica+Martynia annua+Boerhavia diffusa

Herbal Formulation No. 26- Metanastria hyrtaca+Datura alba+Commelina benghalensis+Ipomoea aquatica+Martynia annua+Boerhavia diffusa

New comments added on May 1, 2014

*Through recent surveys in 10 states of India I collected information about over 700 Formulations for Vitiligo in which Metanastria is added as important ingredient. In Adina based Formulations of Madhya Pradesh it is added as tertiary ingredient. The Healers add it as secret ingredient. In Aegle based Formulations for Vitiligo Metanastria is added quaternary ingredient. In Asteracantha based Formulations of Andhra Pradesh Metanastria is added as nonary ingredient. In Ventilago based Formulations it is added as septenary ingredient. In Panicum based Formulations of Chhattisgarh it is added as secondary and nonary ingredients as per the condition of the patients. Patients with poor vitality are not allowed to take these Formulations. In Cordia based Formulations of Balaghat it is added as octonary ingredient. Cordia based Formulations are very popular among the expert Healers. They treat advanced stage of Vitiligo with these Formulations. Metanastria plays key role in these Formulations. The Healers use different wild flower decoction to purify this insect before use in herbal formulations. In Dendrobium based Formulations for external use in treatment of Vitiligo Metanastria is added quinary ingredient. In Grewia based Formulations of Odisha Metanastria is added as senary ingredient. Medicinal Orchids mainly Vanda and Dendrobium are also added as senary ingredients in these Formulations. In Bridelia based Formulations it is added as tertiary ingredient. In these Formulations barks of different wild trees are added with Metanastria.*

*In treatment of Sciatica, Metanastria is added in over 200 Formulations. In Pterocarpus based Formulations it is added as quaternary ingredient. In Cleome and Cassia based Formulations it is added as secondary and senary ingredients. In Vitex based Formulations it is added as septenary ingredient. For complete Formulations and information on dosage please visit [pankajoudhia.com](http://pankajoudhia.com)]*

Thank you very much for reading the article.

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**Oudhia, Pankaj (2014). Traditional medicinal knowledge about *Metanastria hyrtaca* C. (Lepidoptera: Lasiocampidae) feeding on Harshringar (*Nyctanthes arbor-tristis*) in Chhattisgarh, India. Updated Version. [pankajoudhia.com](http://pankajoudhia.com)**

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**Traditional medicinal knowledge about Shield Bug *Plautia fimbriata* Fab. (Hemiptera: Pentatomidae) feeding on Asgandh (*Withania somnifera*) in Chhattisgarh, India. Updated Version.**

**Pankaj Oudhia**

### **Introduction**

Entomophagy and Entomotherapy are well known in Asia since generations. Unfortunately not much work has been done to document valuable Traditional Medicinal Knowledge about Insects. Pankaj Oudhia is documenting this knowledge since year 1990. The present note “Traditional medicinal knowledge about Shield Bug *Plautia fimbriata* Fab. (Hemiptera: Pentatomidae) feeding on Asgandh (*Withania somnifera*) in Chhattisgarh, India.” is updated version of his previously published online research document available through [pankajoudhia.com](http://pankajoudhia.com).

**Keywords: Entomophagy; Entomotherapy; Medicinal Insects; Ayurveda; Chhattisgarh;**

### **Traditional Healing**

The Shield Bug *Plautia fimbriata* is a common pest of fodder crops. In many parts of Chhattisgarh, it also attacks on other herbs including Asgandh (*Withania somnifera*). In

Chhattisgarh, Asgandh is under cultivation. It also grows in wild. The infestation of Shield Bug is more common in wild population than the cultivated fields. During the Ethno-entomological surveys conducted in different parts of Chhattisgarh, I have observed that many traditional healers use the full fed Bugs as medicine. The traditional healers of Charama region use the Bug powder in treatment of Sukhandi (Marasmus of Children). The adults are collected and dried in shade. After drying, the powder is prepared and kept for future use. In combination with Gud (Jaggery) this powder is given internally to the affected children in small doses. According to the healers, the long term use of this powder gives promising results. Many healers use it as supplement treatment to main treatment of Marasmus. They believe that the internal use of powder helps in proper assimilation of herbal drugs. This use is very popular among the healers. Its popularity among them clearly indicates its efficacy. During the surveys, I got opportunities to meet with the patients getting relief from this powder. The results were encouraging.

New comments added on April 25, 2007

Through recent surveys I have collected information about 35 herbal formulations in which this bug is added as important ingredient. These formulations are used for different purposes from Marasmus to health tonic. I am giving list of these formulations in next section of this article. When I asked the Healers of different regions about its use with Gud in treatment of Marasmus as done by Healers of Charama region, they gave different opinions but most of them informed that any insect must not be given directly to patients especially to child patients. It must be added in herbal combinations having enough number of herbs to nullify its harmful effects. The Healers of Bastar region informed that the full fed bug is having strong tonic like property and its direct use results in many types of reaction in body. Many times the reaction results in form of blisters on skin. This information is very important for the Homoeopathic researchers interested in developing new drugs with the help of medicinal insects. If in crude form this insect is resulting in blister then in potensized form it must treat the same types of blisters due to different reasons. The Healers of Bastar region further informed that when they add it in herbal combinations due to effects of herbs its 'heat' reduces. During surveys I noted that many Healers purchase this bug from the herb vendors in powder form due to many reasons. In many places Asgandh is not available. And in places where it is available infestation is not common every year. In such cases they have to depend on herb vendors. They are aware of adulteration practices. But by keeping this powder in mouth they 'feel' its 'heat' and identify the pure material. The young Healers are also aware of this medicinal insect. They are not eager to use it in herbal combinations. They believe that herbs are enough strong to give desired effects. The use of herbs gives them freedom and they have not to depend on the herb vendors. During surveys I observed this bug in many other species also.

The traditional healers of Dhamtari region boil the freshly collected full fed Bugs in base oil and when all watery contents evaporate the boiling is stopped and special oil is collected. As base oil, Til (Sesame seed) oil is used. This special oil is considered as a boon for the patients having the problem of Insomnia. The oil is massaged gently on soles and forehead as treatment. I have tried this oil many times successfully and satisfied with its performance. During the surveys I have observed that many herb vendors sell this special herbal oil to the healers and patients of neighbouring states. The healers are not much aware of its other medicinal uses.

New comments added on April 26, 2007

The Traditional Healers of other parts of Chhattisgarh are also aware of this special oil but they use it less commonly. In simple cases of Insomnia they use Til oil alone and in advanced stage they prefer adding of medicinal herbs like *Bacopa monnieri*, *Evolvulus alsinoides*, *Celastrus paniculata* etc. in Til oil to prepare special oil. In advanced cases they use internal remedies also. They informed that Bug based oil is effective but due to availability of other alternatives this oil is becoming less popular among the Healers. They added that for promising effects it must be prepared by sun method instead of boiling method as the Healers of Dhamtari region are adopting. The Healers of Bastar region informed that they have heard about the use of this oil in treatment of epilepsy from their seniors as the nature of bug is hot. It is having limited use. During attack their seniors were rubbing this oil in sole of the patients. The Healers of present generation are not using it for this purpose. Many of them suggested that one can try new formulation prepared by adding this bug in *Trombidium grandissimum* based oil used for treatment of paralysis due to cold. It is just their suggestion. They have yet not tried it. As their suggestion I am documenting this comment.

The above mentioned traditional medicinal uses of *Plautia fimbriata* have yet not been reported in reference literatures. This research article is the first written document on this aspect.

Thank you very much for reading the article.

*Plautia fimbriata* based Traditional Herbal Formulations used by Traditional Healers of Indian state Chhattisgarh.

Herbal Formulation No. 1- *Plautia fimbriata*+*Withania somnifera* +*Asparagus racemosus*

Herbal Formulation No.2- *Plautia fimbriata*+*Withania somnifera* +*Mucuna pruriens*+*Asparagus racemosus*

Herbal Formulation No. 3- *Plautia fimbriata*+*Withania somnifera* +*Dolichos biflorus*+*Asparagus racemosus*

Herbal Formulation No. 4- *Plautia fimbriata*+*Withania somnifera* +*Acacia nilotica*+*Asparagus racemosus*

Herbal Formulation No. 5- *Plautia fimbriata*+*Withania somnifera* +*Tephrosia purpurea*+*Asparagus racemosus*

Herbal Formulation No. 6- *Plautia fimbriata*+*Withania somnifera* +*Cassia tora*+*Asparagus racemosus*

Herbal Formulation No. 7- *Plautia fimbriata*+*Withania somnifera* +*Cassia absus*+*Asparagus racemosus*

Herbal Formulation No. 8- *Plautia fimbriata*+*Withania somnifera* +*Cassia fistula*+*Asparagus racemosus*

Herbal Formulation No. 9- *Plautia fimbriata*+*Withania somnifera* +*Cassia alata*+*Asparagus racemosus*

Herbal Formulation No. 10- *Plautia fimbriata*+*Withania somnifera* +*Cicer arietinum*+*Asparagus racemosus*

Herbal Formulation No. 11- *Plautia fimbriata*+*Withania somnifera* +*Vigna mungo*+*Asparagus racemosus*

Herbal Formulation No. 12- *Plautia fimbriata*+*Withania somnifera* +*Tinospora cordifolia*+*Asparagus racemosus*

Herbal Formulation No. 13- *Plautia fimbriata*+*Withania somnifera* +*Vigna radiata*+*Asparagus racemosus*

Herbal Formulation No. 14- *Plautia fimbriata*+*Withania somnifera* +*Clitoria ternatea*+*Asparagus racemosus*

Herbal Formulation No. 15- Plautia fimbriata+Withania somnifera +Albizia lebbeck+Asparagus racemosus

Herbal Formulation No. 16- Plautia fimbriata+Withania somnifera +Dalbergia sissoo+Asparagus racemosus

Herbal Formulation No. 17- Plautia fimbriata+Withania somnifera +Bauhinia variegata+Asparagus racemosus

Herbal Formulation No. 18- Plautia fimbriata+Withania somnifera +Bauhinia vahlii+Asparagus racemosus

Herbal Formulation No. 19- Plautia fimbriata+Withania somnifera +Bauhinia tomentosa+Asparagus racemosus

Herbal Formulation No. 20- Plautia fimbriata+Withania somnifera +Pueraria tuberosa+Asparagus racemosus

Herbal Formulation No. 21- Plautia fimbriata+Withania somnifera +Ficus religiosa+Asparagus racemosus

Herbal Formulation No. 22- Plautia fimbriata+Withania somnifera +Ficus racemosa+Asparagus racemosus

Herbal Formulation No. 23- Plautia fimbriata+Withania somnifera +Ficus rumphii+Asparagus racemosus

Herbal Formulation No. 24- Plautia fimbriata+Withania somnifera +Ficus virens+Asparagus racemosus

Herbal Formulation No. 25- Plautia fimbriata+Withania somnifera +Ficus benghalensis+Asparagus racemosus

Herbal Formulation No. 26- Plautia fimbriata+Withania somnifera +Pterocarpus marsupium+Asparagus racemosus

Herbal Formulation No. 27- Plautia fimbriata+Withania somnifera +Tamarindus indica+Asparagus racemosus

Herbal Formulation No. 28- Plautia fimbriata+Withania somnifera +Madhuca indica+Asparagus racemosus

Herbal Formulation No. 29- Plautia fimbriata+Withania somnifera +Cissus quadrangularis+Asparagus racemosus

Herbal Formulation No. 30- Plautia fimbriata+Withania somnifera +Hibiscus rosa-sinensis+Asparagus racemosus

Herbal Formulation No. 31- Plautia fimbriata+Withania somnifera +Vicia hirsuta+Asparagus racemosus

Herbal Formulation No. 32- Plautia fimbriata+Withania somnifera +Cucumis trigonus+Asparagus racemosus

Herbal Formulation No. 33- Plautia fimbriata+Withania somnifera +Ocimum sanctum+Asparagus racemosus

Herbal Formulation No. 34- Plautia fimbriata+Withania somnifera +Asteracantha longifolia+Asparagus racemosus

Herbal Formulation No. 35- Plautia fimbriata+Withania somnifera +Abutilon indicum+Asparagus racemosus

Herbal Formulation No. 36- Plautia fimbriata+Withania somnifera +Mangifera indica+Asparagus racemosus

From these formulations one thing is clear that Withania and Asparagus are integral part of all the formulations. According to the Healers these two herbs are having capacity to nullify the 'heat' of this bug. It is really surprising that full fed bug collected from Withania is added with Withania roots.

New comments added on May, 2014

*Through recent surveys I have collected information about 1200 Formulations in which Plautia collected from Withania is added as important ingredient. These Formulations are used for treatment of Marasmus. In Pueraria based Formulations Plautia is added as secondary ingredient. In Dioscorea based Formulations Plautia is added as senary ingredient. In Bombax based Formulations it is added as tertiary ingredients. In Curculigo based Formulations it is added as quinary ingredient. In Melia based Formulations of Odisha it is added as septenary ingredient. In Solanum based Formulations of Andhra Pradesh it is added as octonary ingredient. In Helicteres based Formulations of Shorea it is added as nonary ingredient. In Oecophylla based Formulations it is added with wild mushrooms as tertiary ingredient. In Medicinal Orchids based Formulations of Bastar it is added as quinary ingredient. Most of the Traditional Healers add it as secret agent and very rarely inform about it even to their close chelas. They claim that most of the Formulations are considered incomplete without it. Although they suggest many herbal alternatives but always try their best to get it from Withania plants. In Trombidium based Formulations of Chhattisgarh it is added as denary ingredient. The Healers of Odisha informed that it is added in Latoia based Formulations also but after long process of purification.*



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## **Citation**

**Oudhia, Pankaj (2014). Traditional medicinal knowledge about Shield Bug *Plautia fimbriata* Fab. (Hemiptera: Pentatomidae) feeding on Asgandh (*Withania somnifera*) in Chhattisgarh, India. Updated Version. [pankajoudhia.com](http://pankajoudhia.com)**

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**Traditional medicinal knowledge about *Daphnis nerii* L. (*Deilephila nerii* L.) [Lepidoptera: Sphingidae] feeding on Sarp Gandha (*Rauvolfia serpentina*) in Chhattisgarh, India. Updated Version.**

**Pankaj Oudhia**

## **Introduction**

Entomophagy and Entomotherapy are well known in Asia since generations. Unfortunately not much work has been done to document valuable Traditional Medicinal Knowledge about Insects. Pankaj Oudhia is documenting this knowledge since year 1990. The present note “Traditional medicinal knowledge about *Daphnis nerii* L. (*Deilephila nerii* L.) [Lepidoptera: Sphingidae] feeding on Sarp Gandha (*Rauvolfia serpentina*) in Chhattisgarh, India.” is updated version of his previously published online research document available through [pankajoudhia.com](http://pankajoudhia.com).

**Keywords: Entomophagy; Entomotherapy; Medicinal Insects; Ayurveda; Chhattisgarh;**

According to the reference literatures, Sarp Gandha (*Rauvolfia serpentina*) is a well known herb of medicinal importance in India. The drug Rauvolfia consists of air-dried roots. Rauvolfia preparations are used as anti-hypersensitives and as sedatives. It is also employed for relief of

various central nervous system disorders associated with psychosis, schizophrenia, insanity, insomnia and epilepsy. The extracts of roots are valued for treatment of intestinal disorders. Mixed with other plant extracts, they are used in treatment of Cholera, colic and fever. The dense forests of Chhattisgarh are rich in natural population of Sarpagandha. Sarpagandha is also under cultivation as commercial medicinal crop. Many insects attack on its wild population. *Deilephila* is one of these insects. The traditional healers of Sarpagandha rich regions of Chhattisgarh use the full fed caterpillars of this hawk moth as medicine. Although the caterpillars are common in Sarpagandha fields also but the caterpillars collected from wild population are only used as medicine. Through the Ethno-entomological surveys conducted in these regions, I have collected valuable information on traditional medicinal uses of this insect. The traditional healers collect the full fed caterpillars and after drying convert it into powder. Many healers use the caterpillars after purification. The caterpillars are dipped in herbal solution after collection, upto entire night. Next morning, after drying it is used as medicine. As traditional secret they do not disclose the contents of herbal solution but many healers informed that Bach (*Acrois calamus*) and Neem play important roles in the herbal solution. The dried caterpillars in powder form are used internally in combination with medicinal herbs in treatment of mental depression. Although the caterpillar powder is added in very small amount but without this powder, the combination is considered incomplete. The traditional healers of Southern Chhattisgarh add the freshly collected caterpillars in Til (Sesame seed) oil and kept the solution in sunlight for a month. After this duration, the special oil is filtered and used as medicine. This oil is considered as a boon for the patients suffering from Mirgi (Epilepsy). During attack, the oil is massaged on all over the body. In normal days, the oil is massaged in same manner in order to delay the further attack. According to the traditional healers of Narharpur region, the caterpillar powder can be used in treatment of insomnia, internally but as other promising alternatives are available, it is used less commonly. From documentation point of view it is an important information. The traditional healers of Chhattisgarh are not aware of its other traditional medicinal uses.

In reference literatures, *Deilephila nerii* is not reported as medicinal insect. These traditional medicinal uses are coming for the first time among the world community through the present research article.

#### **New comments added on May, 2014**

*Through recent surveys I have collected information about over 2000 Formulations in which Deilephila is added as important ingredient. These Formulations are used in treatment of diseases of nervous sytem. In Traditional Santhi Rice based Formulations Deilephila is added as denary ingredient. These Formulations are used in treatment of old cases of Epilepsy. In Phyllanthus based Formulations it is added as secondary ingredient. These Formulations are used in treatment of sleep disorders. In Anogeissus based Formulations of Odisha it is added as tertiary ingredient. These Formulations are used in new cases of Epilepsy. In Terminalia arjuna*

*based Formulations it is added as quinary ingredient. In Lannea based Formulations of Bastar it is added as quaternary ingredient. These Formulations are used in treatment of Insomnia. In Gardenia based Formulations of Kanker it is added as quinary ingredient. These Formulations are used both internally as well as externally in treatment of sleep disorders. In Litsea based Formulations used for Mental Depression it is added as octonary ingredient. These Formulations are popular among the senior Traditional Healers. In Pterocarpus based Formulations for Epilepsy it is added as senary ingredient. Deilephila caterpillars are purified before adding in these Formulations. Over 10 types of wild herbs are used to purify it. In Gymnema and Tinospora based Formulations it is added as septenary ingredient. These Formulations are used by the Traditional Healers of Chhattisgarh and Odisha. In Celastrus based Formulations for Mental Depression Deilephila is added as nonary ingredient. For complete Formulations and information on Dosage please visit [pankajoudhia.com](http://pankajoudhia.com)*

Thank you very much for reading the article.

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## Citation

**Oudhia, Pankaj (2014). Traditional medicinal knowledge about *Daphnis nerii* L. (*Deilephila nerii* L.) [Lepidoptera: Sphingidae] feeding on Sarpagandha (*Rauvolfia serpentina*) in Chhattisgarh, India. Updated Version. [pankajoudhia.com](http://pankajoudhia.com)**

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**Traditional medicinal knowledge about Mango Webber *Orthaga exvinacea* Hamps. (Lepidoptera: Pyralidae) in Chhattisgarh, India. Updated Version.**

**Pankaj Oudhia**

## Introduction

Entomophagy and Entomotherapy are well known in Asia since generations. Unfortunately not much work has been done to document valuable Traditional Medicinal Knowledge about Insects. Pankaj Oudhia is documenting this knowledge since year 1990. The present note “Traditional medicinal knowledge about Mango Webber *Orthaga exvinacea* Hamps. (Lepidoptera: Pyralidae) in Chhattisgarh, India.” is updated version of his previously published online research document available through [pankajoudhia.com](http://pankajoudhia.com).

**Keywords: Entomophagy; Entomotherapy; Medicinal Insects; Ayurveda; Chhattisgarh;**

According to the reference literatures, the Mango Webber *Orthaga exvinacea* webs up the leaves into clusters. Its moth is grayish with dark patches on the wings. The eggs are laid in small clusters on the silken webbing or singly on ribs of the leaves. The caterpillars are gregarious in the beginning and feed by scraping the leaf surface. They soon make tunnels of this webs within which they remain feeding. The full fed caterpillar is pale green with dark bands. A webbed up cluster of leaves harbor several caterpillars. Mango is well known fruit tree in Chhattisgarh. Mango Webber is a common insect feeding on this tree. During the Ethno-entomological surveys conducted in different parts of Chhattisgarh, I have noted that the traditional healers use the webbed up cluster of leaves with caterpillars for medicinal purposes. By boiling this cluster in base oil, the healers prepare special oil. This special oil is used for hair care. According to the traditional healers its regular use not only promotes new hair growth but also helps in checking premature hair fall. As base oil, Til (Sesame seed) oil is used. The healers also add some common herbs like Bhengra (*Eclipta alba*) in this oil, in order to make it more promising. The traditional healers of Kanker region use the cluster having caterpillars in treatment of respiratory trouble. In case of Asthma, the cluster is burned and the patients are advised to inhale the fumes coming from it. It is considered as one of the promising treatments. The traditional healers of Jagdalpur region informed me that the decoction of cluster with caterpillar is applied externally on Bleeding piles in order to stop the bleeding. As other promising alternatives are available, it is used less commonly. From documentation point of view, it is important information. The full fed caterpillars are preferred. The Mango Webber from improved Mango varieties is not used. I have observed during the survey that very few traditional healers are aware of these uses.

In reference literatures, Mango Webber is not described as medicinal insect. This research article is the first written documentation on the traditional medicinal uses of Mango Webber.

#### **New comments added on May, 2014**

*Through recent surveys I have collected information about over 2500 Formulations in which Orthaga is added as important ingredient. These Formulations are used in treatment of over 30 diseases. Most of these Formulations are used in treatment of blood related diseases. In Ocimum based Formulations it is added as tertiary ingredient. These Formulations are used in treatment of diseases due to impurity in blood. In White Butea based Formulations for old cases of Epistaxis it is added as quaternary ingredient. In Clerodendrum based Formulations for old wounds it is added as quinary ingredient. In Trombidium based Formulations for Blood Cancer it is added as senary ingredient. In Medicinal Rice Bhejri based Formulations for skin allergies it is added as nonary ingredient. In Abutilon and Blumea based Formulations it is added as septenary ingredient. These Formulations are used both internally and externally for Eczema. In wild mushrooms specially bracket mushroom based Formulations of Chhattisgarh it is added as octonary ingredient. In Telia Kand based Formulations it is added as denary ingredient. These Formulations are used in treatment of allergies. In Emilia based Formulations for Urticaria it is added as senary ingredient. These Formulations are very popular among the Traditional Healers. In Ailanthus based Formulations it is added as quaternary ingredient with Sphaeranthus. These Formulations are used in treatment of boils. In Commelina based Formulations for early stage of Blood Cancer it is added as nonary ingredient with medicinal insects collected from Medicinal Rice Tenduphool. In Ventilago and Diospyros based Formulations it is added as tertiary ingredient with Cissus and Ampelocissus. These*

*Formulations are used for blood purification. For details on complete Formulations and dosage please visit [pankajoudhia.com](http://pankajoudhia.com)*

Thank you very much for reading the article.

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**Traditional medicinal knowledge about Coffee Green bug *Coccus viridis* Gr. (Hemiptera: Coccidae) feeding on Sahadevi (*Vernonia cinerea*), in Chhattisgarh, India. Updated Version.**

**Pankaj Oudhia**

## Introduction

Entomophagy and Entomotherapy are well known in Asia since generations. Unfortunately not much work has been done to document valuable Traditional Medicinal Knowledge about Insects. Pankaj Oudhia is documenting this knowledge since year 1990. The present note “Traditional medicinal knowledge about Coffee Green bug *Coccus viridis* Gr. (Hemiptera: Coccidae) feeding on Sahadevi (*Vernonia cinerea*), in Chhattisgarh, India.” is updated version of his previously published online research document available through [pankajoudhia.com](http://pankajoudhia.com).

**Keywords: Entomophagy; Entomotherapy; Medicinal Insects; Ayurveda; Chhattisgarh;**

According to the reference literatures, this (*Coccus viridis*) green coloured, flat, soft scale is a major pest of Coffee in all the Coffee-growing regions. The scale in all its stages of development infests the leaves and tender shoots. On the leaves they are present on the under surface crowding along the midribs and veins. The infested plants are covered with sooty mould growing superficially on the honey-dew secretions of bug. Sahadevi acts as alternate host to this Green bug. Sahadevi grows as wasteland weed in Chhattisgarh. It is popular among the traditional healers for its valuable properties and uses. Every year the Green bugs infest this weed heavily. During the Ethno-entomological surveys conducted in different parts of Chhattisgarh in recent past, I have noted that the traditional healers of Southern Chhattisgarh and Plains frequently use the Green bugs feeding on Sahadevi as medicine in treatment of many common diseases. The bugs are collected and used, with Sahadevi leaves in most of the cases. The bug with leaves in dry powder is given internally as remedy to Bavasir (Piles). It is considered as promising remedy of Bavasir particularly at initial stages of trouble. To hide its identity, the healers give this powder with Gud (Jaggery).

#### **New comments added on April 20, 2007**

In advanced cases of Piles specially bleeding Piles the Traditional Healers using Sahadevi leaves and this medicinal insect add more herbs with it in order to increase its performance. The Healers of Southern Chhattisgarh informed during recent surveys that by adding 5 types of medicinal herbs in this combination they make it strong. All these herbs grow as weed with Sahadevi. *Blumea lacera*, *Tridax procumbens*, *Sphaeranthus indicus*, *Ipomoea reniformis* and *Chenopodium album* are these weeds. Leaves of all these herbs are taken and mixed in equal combination. Separately Sahadevi leaves and *Coccus* are mixed in equal proportion. Full fed insects are used. Sahadevi based combination is added in other weed based combination in 10:1 proportion. The Healers informed that this combination acts in promising way and helps in reducing bleeding. All weeds are having property to increase the efficacy of basic combination. *Sphaeranthus* and *Ipomoea* leaves act as tonic also. In general this combination is given with Honey up to one week and continues its use in case of relief. Honey acts as carrier. There are many limitations in use of this combination. Only freshly collected insects are used in this combination. Therefore its off-season use is not possible. Also infestation of this insect on Sahadevi is not very common. The Healers aware of its miraculous effects invest much time and effort in search of such infested plants. They keep this knowledge secret for many reasons. This is the reason common natives are not aware of this useful combination specially about addition of medicinal insect in it. I am fortunate that Healers shared this information with me and also gave me freedom to share it with other Healers in order to get their comments.

When I shared this information with the Healers of Chhattisgarh Plains many of them searched the infested plant and assured me to try it on their patients. The Healers of Bagbahera region are aware of the basic combination but as other promising alternatives are available it is used very rarely. I have mentioned in previous research articles that the Healers of this region use many insects like Bhavri in treatment of Epilepsy. The senior Healers informed that Coccus infesting on other plants are added with popular medicinal insects. I am trying to get more details on this aspect.

In treatment of fever, the bugs with leaves are given in form of decoction. The bugs with leaves are boiled in water. When half quantity (of initial quantity) of water remains, the boiling is stopped and decoction is given to the patients. According to the traditional healers, this decoction increases the perspiration and helps in reducing the high temperature. The traditional healers specialized in treatment of Malarial fever are aware of its internal use in combination with medicinal herbs in treatment. The traditional healers are not aware of its other medicinal uses. As Sahadevi grows as winter season weed, the healers use it in season only. The off-season use is avoided. They have other alternatives as herbs with insects, for other seasons.

These traditional medicinal uses of Coccus viridis feeding on Vernonia sp. have yet not been reported in reference literatures. This valuable information is coming for the first time among the world community, through this research article.

#### **New comments added on May, 2014**

*Through recent surveys I have collected information about over 1800 Formulations in which Coccus viridis collected from Vernonia is added as important ingredient. These Formulations are used in treatment of different types of fever. In Semecarpus based Formulations it is added as secondary ingredient. In Sauropus based Formulations it is added as tertiary ingredient. These Formulations are used in treatment of Enteric fever. In Argemone based Formulations of Odisha it is added as quaternary ingredient. These Formulations are used in treatment of Kala-azar. In Mallotus based Formulations it is added as quinary ingredient. In Glochidion based Formulations for Malaria it is added as quaternary ingredient along with Tagetes. In Drypetes based Formulations for old fever it is added as septenary ingredient. In general the Traditional Healers add it as secret ingredient and rarely share knowledge about it. In Helicia based Formulations for intermittent fever it is added as senary ingredient. In wild mushrooms specially Senha Futu based Formulations it is added as quaternary ingredient with Dudhum fish. These Formulations are used internally for treatment of fever due to lung infection. In Bixa based Formulations for Malarial fever it is added as denary ingredient. In Costus based Formulations*



*it is added as quinary ingredient. These Formulations are used for prevention of malarial fever. In Knema based Formulations it is added as tertiary ingredient. In Calotropis based Formulations it is added as secondary and denary ingredients based on the condition of the patients.*

*In secret Formulations for treatment of Sick Cell Anemia the Traditional Healers of Chhattisgarh add Coccus viridis as important ingredient. These Formulations are known as complex formulations as over 150 ingredients are added in it. The Healers claim that Coccus viridis plays very specific and important role in these Formulations. For information on complete Formulations and dosage please visit [pankajoudhia.com](http://pankajoudhia.com)*

Thank you very much for reading the article.

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**Traditional medicinal knowledge about Ground beetle *Ophionea nigrofasciata* (Schmidt-Goebel) feeding on Rice Green Leaf Hopper, in Chhattisgarh, India. Updated Version.**

**Pankaj Oudhia**

## Introduction

**Entomophagy and Entomotherapy are well known in Asia since generations. Unfortunately not much work has been done to document valuable Traditional Medicinal Knowledge about Insects. Pankaj Oudhia is documenting this knowledge since year 1990. The present note “Traditional medicinal knowledge about Ground beetle *Ophionea nigrofasciata* (Schmidt-Goebel) feeding on Rice Green Leaf Hopper, in Chhattisgarh, India.” is updated**

version of his previously published online research document available through [pankajoudhia.com](http://pankajoudhia.com).

**Keywords: Entomophagy; Entomotherapy; Medicinal Insects; Ayurveda; Chhattisgarh;**

Chhattisgarh is well known for its rice varieties and production. It is known as 'Rice bowl of India'. Rice is a staple food in this region. Beside using it as food, for the traditional healers of Chhattisgarh Rice is a valuable medicinal herb and even the insect-pest attacking on specific rice varieties particularly the medicinal rice varieties are used as folk medicine. In previous articles I have written a lot on different aspects of traditional medicinal knowledge about Rice and Green Leaf Hopper. During the Ethno-entomological surveys conducted in Chhattisgarh Plains, in recent past, I have observed that many healers use Ground beetles *Ophionea nigrofasciata* collected from rice fields as medicine. In general, the Ground beetle is known as potential natural enemies of Leaf Folder larvae and Green Leaf Hopper. The full fed beetles are collected and after drying converted into powder. This powder is used both internally as well as externally in treatment of many common diseases. Its use in treatment of swellings is very popular among the healers. In treatment of swelling it is used externally in form of aqueous paste. This paste is having the capacity to absorb the extra heat from affected part and help in reducing it effectively in very less time. The traditional healers also use the insect powder internally with popular herbal formulations but as traditional secret, they do not want to give the details. The initial information about its potential use as medicinal insect is enough for me. Many healers claimed that the powder is added in popular herbal combinations, as main ingredient, used in treatment of different types of cancerous wounds, but I am not sure about it. The traditional healers using this insect as medicinal insect take special measures during its collection. The rice fields heavily infested with Green Leaf Hopper are selected for the collection with assumption that the beetle has fed on hoppers instead of other insects. The healers claimed that by seeing its efficacy as medicine, they get confirmation whether they have collected the potential beetle or not, but they have no other checking method before this stage. The rice fields where rice is under cultivation as organic crop are selected for the collection of beetles. As the area under chemical farming is increasing, it is becoming difficult for the healers to get the potential beetle. The senior healers informed that in early days when medicinal rice varieties were under cultivation, the beetles were in use in treatment of many complicated troubles. Unfortunately, these varieties are not under cultivation now.

The above mentioned traditional medicinal uses of Ground beetle have yet not been reported in reference literatures. This research article is the first written document on this important aspect.

**New comments added on May, 2014**



*Through recent surveys I have collected information about over 3000 Formulations in which Ophionea is added as important ingredient. These Formulations are popular among the Traditional Healers for miraculous wound healing properties. In Abutilon based Formulations it is added as secondary ingredient. These Formulations are used internally. In Termite based Formulations it is added as quinary ingredient. These Formulations are used externally as well as internally. In Gram Pod Borer based Formulations Ophionea is added as tertiary ingredient. In Phaecanthus based Formulations it is added as quaternary ingredient. Allelopathically enriched Azadirachta is added as secondary ingredient in these Formulations. In Hydnocarpus based Formulations used in treatment of cancerous wound it is added as octonary ingredient. In Mitragyna based Formulations of Odisha it is added as septenary ingredient. These Formulations are popular among the senior Healers. In Costus based Formulations for old wound in patients having Type 2 Diabetes Ophionea is added as secondary and tertiary ingredients. In Xanthium based Formulations of North Chhattisgarh it is added as denary ingredient. These Formulations are effective but not much popular among the Healers of young generation. In Miliusa based Formulations it is added as nonary ingredient. The Healers perform purification rituals before adding it in these Formulations. Over 18 types of herbs and herbal combinations are used in the purification process. In Cullenia based Formulations it is added as senary ingredient along with wild mushrooms and medicinal orchids. In Medicinal Rice Alcha based Formulations it is added as quinary ingredient. For complete information on Formulations and dosage please visit [pankajoudhia.com](http://pankajoudhia.com)*

Thank you very much for reading the article.

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**Traditional medicinal knowledge about Pea leaf miner *Phytomyza atricornis* Meigen. feeding on Senji (*Melilotus indica*) leaves, in Chhattisgarh, India. Updated Version.**

**Pankaj Oudhia**

## Introduction

Entomophagy and Entomotherapy are well known in Asia since generations. Unfortunately not much work has been done to document valuable Traditional Medicinal Knowledge about Insects. Pankaj Oudhia is documenting this knowledge since year 1990. The present note “Traditional medicinal knowledge about Pea leaf miner *Phytomyza atricornis* Meigen. feeding on Senji (*Melilotus indica*) leaves, in Chhattisgarh, India.” is updated version of his previously published online research document available through [pankajoudhia.com](http://pankajoudhia.com).

**Keywords: Entomophagy; Entomotherapy; Medicinal Insects; Ayurveda; Chhattisgarh;**

Senji (*Melilotus indica*) grows as problematic winter season weed in crop fields of Chhattisgarh. In many parts of Chhattisgarh, many varieties of Senji are under cultivation as fodder crop. In different systems of medicine in India, many medicinal properties and uses of Senji have been reported. In Homoeopathy, it is one of the most frequently used medicines. The traditional healers of Chhattisgarh are also aware of its medicinal uses. The Pea leaf miner *Phytomyza atricornis* uses the Senji herb as alternative host. Pea is a major pest of pulse crops in Chhattisgarh. During the Ethno-entomological surveys conducted in different parts of Chhattisgarh, in recent past, many traditional healers informed that in early days the medicinal uses of maggots feeding on Senji herb were in existence in many parts of the state. The traditional healers were using the full fed maggots after purification, in treatment of all types of bleeding, both internally as well as externally. The purification is the process, the traditional healers of present generation is not aware of. This is the reason, according to them, responsible



for its less use. It is not its poor efficacy that has made it out of use. When the traditional healers of present generation tried the maggots collected from Senji leaves without purification, they observed its harmful effects. Through the on-going Ethno-entomological surveys, I am trying my best to gather the information from senior traditional healers aware of its purification method. Every year this it infests the Senji heavily. I personally feel that if we can start utilizing the *Phytomyza* feeding on Senji as medicinal insect, this will be the great help for the Chhattisgarh farmers, because they invest much on agrochemicals to manage this insect in crop fields. Unlike other medicinal insects, the traditional healers were using the maggots feeding on Senji, in pure form, without adding medicinal herbs in it.

Although the above mentioned traditional medicinal uses are not in existence in Chhattisgarh but from documentation point of view it is important information. You will find more details about this medicinal insect in coming articles.

#### **New comments added on May, 2014**

*Through recent surveys I have collected information about over 5000 Formulations in which Phytomyza collected from Melilotus is added as important ingredient. These Formulations are used in treatment of skin diseases. In Goniothalamus based Formulations Phytomyza is added as tertiary ingredient. In these Formulations barks of different wild trees are added along with Phytomyza. In Psoralea based Formulations it is added as quaternary ingredient. These Formulations are used for treatment of allergies. The Traditional Healers of Odisha add Phytomyza as tertiary ingredient in Sterculia based Formulations whereas the Healers of Chhattisgarh add it as quinary ingredient in these Formulations. In Wild Curcuma based Formulations Phytomyza is added as septenary ingredient. In Tinospora based Formulations it is added as senary ingredient along with Ocimum, Hyptis and Costus. These Formulations are popular among the Healers. In Orophea based Formulations for Eczema it is added as denary ingredient. In Asparagus based Formulations of Chhattisgarh Plains Phytomyza is added octonary ingredient. In Medicinal Rice Laicha based Formulations it is added as nonary ingredient. In Xanthophyllum based Formulations of Maharashtra it is added as quinary ingredient. For information on complete Formulations and dosage please visit [pankajoudhia.com](http://pankajoudhia.com)*

Thank you very much for reading the article.

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## Citation

**Oudhia, Pankaj (2014). Traditional medicinal knowledge about Pea leaf miner *Phytomyza atricornis* Meigen. feeding on Senji (*Melilotus indica*) leaves, in Chhattisgarh, India. Updated Version. [pankajoudhia.com](http://pankajoudhia.com)**

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**Traditional medicinal knowledge about *Aphis* sp. (Hemiptera: Aphididae) feeding on Ratalu (*Dioscorea bulbifera*) in Chhattisgarh, India. Updated Version.**



**Pankaj Oudhia**

## **Introduction**

**Entomophagy and Entomotherapy are well known in Asia since generations. Unfortunately not much work has been done to document valuable Traditional Medicinal Knowledge about Insects. Pankaj Oudhia is documenting this knowledge since year 1990. The present note “Traditional medicinal knowledge about Aphis sp. (Hemiptera: Aphididae) feeding on Ratalu (*Dioscorea bulbifera*) in Chhattisgarh, India.” is updated version of his previously published online research document available through [pankajoudhia.com](http://pankajoudhia.com).**

**Keywords: Entomophagy; Entomotherapy; Medicinal Insects; Ayurveda; Chhattisgarh;**

According to the reference literatures, Ratalu (*Dioscorea bulbifera*) is a climbing, herbaceous perennial with large, tuberous roots. The aerial bulbs or tubers, produced in leaf axils, are fleshy and succulent. For eating purpose, it requires detoxification. Ratalu is well known medicinal herb in Chhattisgarh. The natural forests of Chhattisgarh particularly the Southern Chhattisgarh are rich in Ratalu population. The natives and traditional healers have in depth traditional medicinal knowledge about this herb. Many insect species attack on natural population of Ratalu. Aphis sp. is one of these species. I have identified it as *Aphis craccivora* but I am confirming it. The traditional healers of Southern Chhattisgarh use it as medicinal insect. Through the Ethno-entomological surveys conducted in this region, I have collected valuable information on this aspect. The full fed nymphs and adults are collected and in dry form, kept for future use. The traditional healers add the insect powder as essential ingredient in popular herbal combinations used as birth control measure. According to them, they have acquired this knowledge from their ancestors and since generations they are practicing this knowledge successfully. In general, they do not inform the patients coming to them about the addition of insect powder. Many healers use the insect powder externally also. In combination with Shahad (Honey), a thick solution is prepared and female natives are suggested to apply it inside the vagina, just before the intercourse. It is considered as one of the promising preventive measures. As other promising and cheap alternatives are available it is used less commonly by the traditional healers. But from documentation point of view it is important information. The popularity of these uses among the healers emphasize the need of systematic research on this aspect without any delay. The traditional healers are not aware of its other medicinal uses. Through the on-going Ethno-entomological surveys I am trying my best to gather more information on this aspect.

In reference literatures, the above mentioned traditional medicinal uses have yet not been reported. The present research article is the first written document on this aspect.

## **New comments added on May, 2014**

*Through recent surveys I have collected information about over 3500 Formulations in which Aphis species collected from Dioscorea is added as important ingredient. These Formulations are used in treatment of respiratory diseases at all stages both internally as well as externally. In Blumea based Formulations it is added as secondary ingredient by the Traditional Healers of North Chhattisgarh whereas the Healers of Jharkhand add it as tertiary ingredient. In Sphaeranthus based Formulations for Asthma it is added as tertiary ingredient with Cuscuta collected from Ziziphus. In Abutilon based Formulations of Odisha it is added as quaternary ingredient. In Calophyllum based Formulations it is added as quinary ingredient. In Vateria based Formulations it is added as quaternary ingredient. In Vanslochan based Formulations it is added as secret ingredient by the Healers of different regions. The Healers of Amarkantak add it as secondary ingredient whereas the Healers of Bastar add it as septenary ingredient. The Healers of Niyamgiri add it as octonary ingredient. In Dysoxylum based Formulations it is added as denary ingredient. In Psoralea based Formulations it is added as nonary ingredient. In Nothopegia based Formulations of Maharashtra it is added as senary ingredient. Based on the vitality of the patients many times it is added as secondary ingredient. In Cyperus and Typha based Formulations of Chhattisgarh Plains it is added as septenary ingredient. For complete information on Formulations and dosage please visit [pankajoudhia.com](http://pankajoudhia.com)*

Thank you very much for reading the article.

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**Traditional medicinal knowledge about Rice Black bug *Scotinophara* sp. in Chhattisgarh, India. Updated Version.**

**Pankaj Oudhia**

**Introduction**

**Entomophagy and Entomotherapy are well known in Asia since generations. Unfortunately not much work has been done to document valuable Traditional Medicinal Knowledge about Insects. Pankaj Oudhia is documenting this knowledge since year 1990. The present note “Traditional medicinal knowledge about Rice Black bug *Scotinophara* sp. in Chhattisgarh, India.” is updated version of his previously published online research document available through [pankajoudhia.com](http://pankajoudhia.com).**

**Keywords: Entomophagy; Entomotherapy; Medicinal Insects; Ayurveda; Chhattisgarh;**

In Chhattisgarh, two species of Rice Black bug *Scotinophara coarctata* and *S. lurida* attack on Rice (*Oryza sativa*) crop. It infests the base of Rice plants. The seedlings are preferred. According to the reference literatures, when grown-up plants are attacked and reduction in yield is noted. During the Ethno-entomological surveys conducted in different parts of Chhattisgarh, I have observed that the traditional healers of Chhattisgarh plains specialized in treatment of Mirgi (Epilepsy), very frequently use the Black bug as medicine. The adults are used most commonly. In form of dry powder the adults are added in herbal combination. This combination is burnt and patients are advised to inhale the smoke. Many times the healers use the dry insect alone for this purpose in same way. According to the traditional healers, the smoke provides great relief to the patients during attack. Also, in normal days the patients are advised to inhale the smoke atleast once in a week in order to delay further attack. Many healers informed that in small doses, the powder can be taken internally also, but most of the healers are not in favour of its internal use. In treatment of Mirgi, the adult bugs are used in another way. The full fed bugs are collected and boiled in base oil. When all watery contents evaporate the boiling is stopped and after filter, the oil is kept for future use. As base oil, Til (Sesame seed) oil is used. The special oil is massaged in sole of patients as treatment. According to the traditional healers, this massage is also beneficial for the patients as treatment. According to the traditional healers, this massage is also beneficial for the patients having mental depression. In order to increase the potential of special oil, many healers add medicinal herbs in it, but in most of the cases, the oil prepared from adult bugs serve the problem effectively. The Black bugs feeding on seedlings are considered more useful as medicine as compared to the bugs feeding on grown up plants. As mentioned earlier, the nymphs are preferred less. The traditional healers are not aware of other medicinal uses of Rice Black bug.

The name of Rice Black bug is not present in the list of medicinal insects mentioned in reference literatures. Many senior traditional healers informed that in early days when the medicinal rice varieties were undercultivation in different parts of Chhattisgarh the healers of that time were using the Rice Black bug feeding on specific medicinal rice variety as medicine in treatment of

many complicated troubles. But now both the medicinal rice varieties and the healers are not with us. Through the on-going surveys, I am trying my best to gather more information on different medicinal uses of Rice Black bug in Chhattisgarh.

#### **New comments added on May, 2014**

*Through recent surveys I have collected information about over 5300 Formulations in which Rice Black bug is added as important ingredient. These Formulations are used in treatment of diseases of nervous system. In Acrous based Formulations the Traditional Healers of Chhattisgarh frequently use it as important ingredient. It is added as secret ingredient and in most of the cases insect based Formulations are presented among the patients as herbal formulations. In Nardostachys based Formulations it is added as denary ingredient. The Healers collect Rice Black bug from 10 different types of medicinal rice crops and use it in Formulations. In Tacca based Formulations it is added as nonary ingredient. These Formulations are used both internally as well as externally. In Gardenia based Formulations it is added as octonary ingredient. These Formulations are used during early stage. In Terminalia and Cassia based Formulations it is added as septenary ingredient. The Traditional Healers of Odisha use it in treatment of Epilepsy internally. It is added as denary ingredient along with Oecophylla and Termites. These Formulations are popular among them. In Ilex based Formulations it is added as senary ingredient. Many times it is added as secondary ingredient. In Gluta based Formulations used for advanced stages of disease it is added as quaternary ingredient. These Formulations are not much popular among the Healers but from documentation point of view it is important information. In Holigarna based Formulations it is added as tertiary ingredient. In these Formulations the Healers add different types of wood mushrooms as important ingredient. They claim that presence of Rice Black bug in these Formulations enhances the performances of wood mushrooms. In Mastixia based Formulations it is added as tertiary and quaternary ingredients. Many times it is added as senary ingredient. In Medicinal Rice Baisur based Formulations it is added as octonary ingredient. In Telia Kand based Formulations for nervous exhaustion it is added as quinary ingredient. For complete information on Formulations and dosage please visit [pankajoudhia.com](http://pankajoudhia.com)*

Thank you very much for reading the article.

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**Traditional medicinal knowledge about Safflower Aphid *Uroleucon compositae* (Theobald) [Aphididae: Hemiptera] feeding on *Euphorbia geniculata*, in Chhattisgarh, India. Updated Version.**

**Pankaj Oudhia**

## Introduction

Entomophagy and Entomotherapy are well known in Asia since generations. Unfortunately not much work has been done to document valuable Traditional Medicinal Knowledge about Insects. Pankaj Oudhia is documenting this knowledge since year 1990. The present note “Traditional medicinal knowledge about Safflower Aphid *Uroleucon compositae* (Theobald) [Aphididae: Hemiptera] feeding on *Euphorbia geniculata*, in Chhattisgarh, India.” is updated version of his previously published online research document available through [pankajoudhia.com](http://pankajoudhia.com).

**Keywords: Entomophagy; Entomotherapy; Medicinal Insects; Ayurveda; Chhattisgarh;**

*Uroleucon compositae* is one of the major pests of Safflower crop in Chhattisgarh. According to the reference literatures, it can cause upto 35 percent of loss of crop. It completes its life cycle in 11-16 days. The adult Aphid is having a life span of 17 days. A female produces 6-56 young ones with on average of 21. The Aphid is active from December to April. Many weed species act as alternate host to this Aphid. Duddhi grows as field and wasteland weed in Chhattisgarh. The

natives and traditional healers are aware of its medicinal properties and uses. During the Ethno-entomological surveys conducted in different parts of Chhattisgarh in recent past, I have observed that the traditional healers of Bagbahera region use the Aphids feeding on *Euphorbia geniculata* as medicine. The full fed Aphids are used in many ways. In treatment of constipation, the traditional healers use Aphid in form of food preparation. With the help of cowghee, the Aphid are roasted well and added in common curries. According to the traditional healers the internal use of curry having roasted Aphids cures the trouble of constipation effectively in very less time. As many natives hesitate to add the Aphid in curry, the healers give them the Aphids after more roasting as medicine without informing about its source. They further informed that in early days the senior traditional healers were preparing different dishes from Aphid for the same purpose but these dishes are not in use these days. In treatment of respiratory troubles, the Aphids are used in form of oil. The full fed Aphids are boiled in base oil. When all watery contents evaporate the boiling is stopped and special oil is kept for future use. As base oil, Sarson (Mustard seed) oil is used. The special oil is used externally. It is applied externally on chest during the acute attack. Most of the healers use this oil as supplement treatment to main treatment. As main treatment herbal combinations are used. The traditional healers of Bagbahera region are not aware of its other medicinal uses. The traditional healers of other regions of Chhattisgarh are not much aware of medicinal uses of Safflower Aphid.

It is a matter of surprise that the traditional healers of Bagbahera region are not aware of medicinal uses of *Uroleucon compositae* feeding on Safflower herb. In reference literatures, this insect is not mentioned as medicinal insect. This research article is a first written document on this aspect.

#### **New comments added on May, 2014**

*Through recent surveys I have documented information about over 2500 Formulations in which Uroleucon collected from Euphorbia is used as important ingredient. The Traditional Bonesetters of India use it frequently in their Formulations as secret ingredient. In Casearia based Formulations it is added as secondary ingredient. In Vepris based Formulations it is added as tertiary ingredient. In Entada based Formulations of Chhattisgarh-Maharashtra border it is added as tertiary ingredient. In Ficus based Formulations it is added as secondary ingredient. These Formulations are popular among the Healers of Eastern parts of Chhattisgarh. In Gorochoan based Formulations it is added with Telia Kand. In Desmodium based Formulations it is added as senary ingredient. These Formulations are popular among the Healers of Deobhog region. The Bonesetters of Orissa use Shorea based Formulations both internally as well as externally. In internally used Formulations Uroleucon is added as quinary ingredient. In Vanda based Formulations of Kanker it is added as septenary ingredient. Many times it is added as octonary ingredient also. In Atuna based Formulations of Maharashtra it is added as denary ingredient. The Healers are well aware of its important in the Formulations. Most of the Atuna based Formulations for bone diseases are considered incomplete without it. In*

*Palaquium based Formulations it is added as nonary ingredient. For information on complete Formulations and dosage please visit [pankajoudhia.com](http://pankajoudhia.com)*

Thank you very much for reading the article.

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## Citation

**Oudhia, Pankaj (2014). Traditional medicinal knowledge about Safflower Aphid *Uroleucon compositae* (Theobald) [Aphididae: Hemiptera] feeding on *Euphorbia geniculata*, in Chhattisgarh, India. Updated Version. [pankajoudhia.com](http://pankajoudhia.com)**

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**Traditional medicinal knowledge about *Aulacophora intermedia* feeding on Jowar, in Chhattisgarh, India. Updated Version.**

**Pankaj Oudhia**

## Introduction

Entomophagy and Entomotherapy are well known in Asia since generations. Unfortunately not much work has been done to document valuable Traditional Medicinal Knowledge about Insects. Pankaj Oudhia is documenting this knowledge since year 1990. The present note “Traditional medicinal knowledge about *Aulacophora intermedia* feeding on Jowar, in Chhattisgarh, India.” is updated version of his previously published online research document available through [pankajoudhia.com](http://pankajoudhia.com).

**Keywords: Entomophagy; Entomotherapy; Medicinal Insects; Ayurveda; Chhattisgarh;**

According to the reference literatures Jowar (*Sorghum vulgare*) is one of the major millet crops of India. Its grains are used as food and stem and leaves are used as fodder. The sorghum grain is used as raw material in malting industry and also as source of starch in fermentation industry, for manufacturing industrial alcohol and acetone. Jowar is well known agricultural crop in many parts of Chhattisgarh. Many insects attack on different plant parts of Jowar. *Aulacophora intermedia*, the Chrysomelid beetles are one of these insects. During the Ethno-entomological surveys conducted in different parts of Chhattisgarh, I have noted that the traditional healers of Rajnandgaon region use the full fed adults and grubs of *Aulacophora intermedia* as medicine. The related species of *Aulacophora* are not used by these traditional healers. The healers informed that the beetles are used in combination with medicinal herbs in treatment of skin

diseases. The herbal combinations having powdered beetles are used in form of decoction. The decoction is applied externally on affected parts. The healers have deep faith in the traditional uses of *Aulacophora*. I have observed during the survey, that many senior natives are also aware of this use. They are using the decoction of full fed beetles in treatment of skin related troubles in cattle particularly in rainy season. Although the traditional healers have no standardized way to prepare the decoction but I have noted that in general, the beetles and water are taken in 1:5 ratio and the solution is boiled. When half quantity (of initial quantity) of solution remains the boiling is stopped and decoction is used. Many times the healers mix the decoction with Kanhar (Black) soil and in form of aqueous paste use it in treatment of skin diseases. The healers further informed that in most of the cases when all common herbs and herbal combinations fail to cure the trouble, only in such cases the decoction of Beetles is used. The Beetles are used only during growing season of Jowar. The healers are not in favour of its off-season use. In off-season they use other insect species for treatment. The beetles collected from organically grown Jowar crops are considered fit as medicine.

The name of *Aulacophora intermedia* is not present in the list of medicinal insects in reference literatures. The unique use of this beetle is coming for the first time in front of world community through this article.

#### **New comments added on May, 2014**

*Through recent surveys I have collected information about over 2000 Formulations in which Aulacophora is added as important ingredient. These Formulations are used both internally as well as externally in treatment of skin diseases. In Cynodon based Formulations for Eczema it is added as secondary ingredient. These Formulations are used internally. Before using it in Formulations many Healers adopt purification methods. Over 55 herbs are used in different ways during these purification methods. In Celastrus based Formulations it is added as quaternary ingredient. These Formulations are used to treat common skin diseases like itch. In treatment of Psoriasis the Traditional Healers of Basatr use Medicinal Orchids based Formulations. In these Formulations Aulacophora is added as important ingredient. In Dendrobium based Formulations it is added as secondary ingredient whereas in Vanda based Formulations it is added as quinary ingredient. In Peristylis based Formulations it is added as denary ingredient. In Tacca based Formulations of Amarkantak Aulacophora is added as octonary ingredient. These Formulations are used in treatment of Eczema. In treatment of Boils when the Healers use Tacca based Formulations they add Aulacophora as nonary ingredient. In Metrephora based Formulations Aulacophora is added as septenary ingredient. These Formulations are used mainly for treatment of Leucoderma. In Phaeanthus based Formulations for old cases of Vitiligo it is added as quinary ingredient. In Gordonina based Formulations it is added as senary ingredient. Based on the vitality of the patients it is added as secondary ingredient also.*

*In Traditional Formulations used for Mitragyna Toxicity Aulacophora is added as important ingredient. The Traditional Healers of Bastar add it as quaternary ingredient whereas the Healers of Odisha add it as quinary ingredient. Many times it is added as denary ingredient also. For information on complete Formulations and dosage please visit [pankajoudhia.com](http://pankajoudhia.com)*

Thank you very much for reading the article.

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## **Citation**

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**Traditional medicinal knowledge about medicinal insect *Papilio demoleus* L. (Papilionidae: Lepidoptera) feeding on Bael (*Aegle marmelos*), in Chhattisgarh, India. Updated Version.**

**Pankaj Oudhia**

## **Introduction**

Entomophagy and Entomotherapy are well known in Asia since generations. Unfortunately not much work has been done to document valuable Traditional Medicinal Knowledge about Insects. Pankaj Oudhia is documenting this knowledge since year 1990. The present note “Traditional medicinal knowledge about medicinal insect *Papilio demoleus* L. (Papilionidae: Lepidoptera) feeding on Bael (*Aegle marmelos*), in Chhattisgarh, India.” is updated version of his previously published online research document available through [pankajoudhia.com](http://pankajoudhia.com).

**Keywords: Entomophagy; Entomotherapy; Medicinal Insects; Ayurveda; Chhattisgarh;**

According to the reference literatures, *Papilio demoleus*, the Citrus Butterfly, is a highly destructive pest in India and has a countrywide distribution. The damage caused by the caterpillar to host plant by defoliation is often serious. Seedlings and young plants suffer the most. The adult is a black and yellow swallow-tail butterfly. Eggs are laid singly or in groups of 2-3 on leaves. The larva grows feeding on the leaves. The full-fed caterpillar is stout and greenish in colour and pupates on the plant. In Chhattisgarh, this insect attacks on Bael (*Aegle marmelos*) leaves. Bael is well known herb of medicinal importance in Chhattisgarh. It is a medium sized thorny deciduous tree found in the plains and sub-montane regions of India. It is also under cultivation in many parts. The sweet aromatic pulp of fruit is edible whereas fruit rind yields tannin. The mucilaginous substance, secreted around seeds, is used in varnishes and cementing mixtures and also used as an adhesive. The fruits constitute the drug called Bel, which is chiefly used in chronic diarrhoea and dysentery. All parts of Bael possess valuable medicinal properties and the natives and traditional healers of Chhattisgarh have in depth traditional knowledge about different medicinal uses of Bael. During the ethnoentomological surveys conducted in different parts of Chhattisgarh particularly in Southern Chhattisgarh I have observed that many traditional healers, aware of infestation of *Papilio demoleus*, on Bael leaves collect the full fed caterpillars and use it both internally as well as externally in treatment of many diseases. It is used alone or in combination with other herbs. For internal use they prefer the dried caterpillars. The caterpillars collected from Bael leaves are killed and dried in shade. Many healers prefer to keep it under moonlight during drying in order to get more promising results. The dried caterpillars are crushed into powder and stored for future use. For external uses, they prefer the freshly collected larvae. The traditional healers informed me that the use of Bael leaves in many combinations result in harmful effects. In such cases, the caterpillars can play an important role. Few healers use caterpillars with Bael leaves but most of the healers are not in favour of this use. The healers add the dry caterpillars in powder form, in popular herbal combinations used in treatment of all types of bleeding both internally as well as externally. They informed that the internal use of powder alone with lukewarm water is boon for the patients having poor digestion. They recommend its use upto fifteen days for complete cure. In general, they suggest the patients to use it in any part of the year, in the interval of three months, in order to maintain good health. The traditional healers of Kanker region use the freshly collected caterpillars in treatment of boils. In combination with Bariyara (*Sida acuta*) and Neem leaves, they prepare an aqueous paste and apply it externally on boils. It suppresses the boils effectively. According to the healers, the caterpillars play an important role in eliminating the heat of the boils.

The use of problematic pest *Papilio demoleus* as medicinal insect has yet not been reported from any part of the world. I am feeling proud to document this important traditional medicinal knowledge. I am confident that the positive attitude towards this insect will help us to prepare the



strategies to utilize it for the benefit of human beings rather than to destroy it through harmful agrochemicals.

### **New comments added on May, 2014**

*Through recent surveys I have collected new information on medicinal uses of Papilio demoleus collected from Aegle plants. For Cassia overdose the Traditional Healers use Feronia based Formulations. In these Formulations Papilio demoleus is added as secondary ingredient. For Datura toxicity the Healers use Terminalia based Formulations. In these Formulations Papilio demoleus is added as quaternary ingredient. In order to manage the cases of Toona excess the Healers use Cuscuta based Formulations. The Healers add Papilio demoleus as quinary ingredient in these Formulations. In general it is added as secret ingredient and very rarely share information about it.*

*In Hopea based Formulations for internal bleeding Papilio demoleus is added as septenary ingredient. These Formulations are popular among the Healers. They are not in favour of its long term use. In Euonymus based Formulations it is added as octonary ingredient. These Formulations are used internally for management of wound in patients with Diabetes. In Astercantha based Formulations used for blood purification Papilio demoleus is added as senary ingredient along with Leonotis. In Medicinal Rice Kanthi Banko based Formulations for boils Papilio demoleus is added as denary ingredient. These Formulations are considered as promising and used internally. In Satyrium based Formulations for blood related diseases Papilio demoleus is added as nonary ingredient. In these Formulations only wild orchids are used.*

*In Dactylorhiza based Formulations for internal bleeding the Healers of Jharkhand use it with Blumea as secondary ingredient. The Healers of Odisha use it with Madhuca as quaternary ingredient whereas the Healers of Bastar use it with Asparagus as quinary ingredient. For complete information on Formulations and Dosage please visit [pankajoudhia.com](http://pankajoudhia.com)*

Thank you very much for reading the article.

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## **Citation**

**Oudhia, Pankaj (2014). Traditional medicinal knowledge about medicinal insect *Papilio demoleus* L. (Papilionidae: Lepidoptera) feeding on Bael (*Aegle marmelos*), in Chhattisgarh, India. Updated Version. [pankajoudhia.com](http://pankajoudhia.com)**

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**Traditional medicinal knowledge about *Spilostethus hospes* Fb. (Lygaeidae: Hemiptera) feeding on Asgandh (*Withania somnifera*) in Chhattisgarh, India. Updated Version.**

**Pankaj Oudhia**

## **Introduction**

Entomophagy and Entomotherapy are well known in Asia since generations. Unfortunately not much work has been done to document valuable Traditional Medicinal Knowledge about Insects. Pankaj Oudhia is documenting this knowledge since year 1990. The present note "Traditional medicinal knowledge about *Spilostethus hospes* Fb. (Lygaeidae: Hemiptera) feeding on Asgandh (*Withania somnifera*) in Chhattisgarh, India." is updated version of his previously published online research document available through [pankajoudhia.com](http://pankajoudhia.com).

**Keywords: Entomophagy; Entomotherapy; Medicinal Insects; Ayurveda; Chhattisgarh;**

In general, *Spilostethus hospes* is one of the lygaeids that feeds on agricultural crops of economical importance. It commonly attacks on Cotton. In Chhattisgarh, particularly in Southern Chhattisgarh, it infests the wild population of Asgandh (*Withania somnifera*). The traditional healers of Bhopalpatnam, Bijapur, Konta and Dantewada regions are aware of many medicinal properties and uses of this Bug feeding on Asgandh. Through the Ethno-entomological surveys conducted in recent past, I have noted valuable information on this important aspect. The full fed adults are preferred. The Bugs are collected and dried in shade. After drying, by crushing powder is prepared. This powder is given internally as medicine. According to the traditional healers of Bhopalpatnam region, the regular use of this powder in small amount flushes out the intestinal worm effectively in very less time. Before giving insect powder with Shahad (honey), the patients are advised to eat Gud (Jaggery). The Jaggery brings all the worms at one place inside the body and few minutes after its intake, the insect powder and Shahad are given. The traditional healers informed that they have gained this knowledge from their ancestors and without any modification, using it since generations. Its popularity among them clearly indicates its efficacy. In use of insect powder with medicinal herbs, the healers have difference in opinion. Most of the healers are in favour of using insect powder alone, internally. They are unanimous in use of insect powder externally in combination of medicinal herbs, in treatment of Diabetic carbuncle. The combinations are applied on wounds. According to the healers, the insect powder plays an important role in making the combinations useful and without it, many combinations are incomplete. The traditional healers of other regions of Chhattisgarh are not aware of these traditional medicinal uses, although both Asgandh and *Spilostethus* are common in other regions.

In reference literatures, *Spilostethus hospes* is not mentioned as medicinal insect. It seems that the present research article is the first written document on this important aspect.

#### **New comments added on May, 2014**

*Spilostethus* is added as important ingredient in over 1800 Traditional Formulations used for treatment of Vitiligo. I have collected additional information about its Traditional uses through recent surveys. In *Cullenia* based Formulations it is added as secondary ingredient. These Formulations are used by the Traditional Healers of Chhattisgarh-Maharashtra norder. In *Reinwardtiodendron* based Formulations it is added as quaternary ingredient. These Formulations are used in treatment of complicated cases of Vitiligo. In *Glyptopetalum* based Formulations it is added as quinary ingredient. These Formulations are used in treatment of Vitiligo patients with Diabetes Type 2. In *Microtropis* based Formulations of Chhattisgarh-Andhra Pradesh border it is added as septenary ingredient. These Formulations are used in treatment of early stages of Vitiligo.

*In Androcorys based Formulations of Jharkhand it is added as nonary ingredient. These Formulations are used in treatment of complicated cases of Vitiligo. In Habenaria based Formulations of Chhattisgarh it is added as senary ingredient.*

*In Shorea based Formulations for Cynodon Toxicity Spilostethus is added as tertiary ingredient. In Neottia based Formulations for Vanda Overdose it is added as denary ingredient. For details on complete Formulations and dosage please visit [pankajoudhia.com](http://pankajoudhia.com)*

Thank you very much for reading the article.

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## Citation

**Oudhia, Pankaj (2014). Traditional medicinal knowledge about *Spilostethus hospes* Fb. (Lygaeidae: Hemiptera) feeding on Asgandh (*Withania somnifera*) in Chhattisgarh, India. Updated Version. [pankajoudhia.com](http://pankajoudhia.com)**

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**Traditional medicinal knowledge about *Lyncestis amphix* Cr. (Lepidoptera: Noctuidae) feeding on Tulsi (*Ocimum sanctum*) in Chhattisgarh, India. Updated Version.**

**Pankaj Oudhia**

## Introduction

Entomophagy and Entomotherapy are well known in Asia since generations. Unfortunately not much work has been done to document valuable Traditional Medicinal Knowledge about Insects. Pankaj Oudhia is documenting this knowledge since year 1990. The present note “Traditional medicinal knowledge about *Lyncestis amphix* Cr. (Lepidoptera: Noctuidae) feeding on Tulsi (*Ocimum sanctum*) in Chhattisgarh, India.” is updated version of his previously published online research document available through [pankajoudhia.com](http://pankajoudhia.com).

**Keywords: Entomophagy; Entomotherapy; Medicinal Insects; Ayurveda; Chhattisgarh;**

Tulsi (*Ocimum sanctum*) is a well known sacred plant of the Indian, grown in houses, gardens and temples all over India. The oil from leaves has the property of destroying bacteria and insects. In reference literatures related to different systems of medicine in India, Tulsi holds a reputed position as medicinal herb. Its all parts are used as medicine both internally as well as externally. The natives and traditional healers of Chhattisgarh are well aware of this herb. It is an integral part of home garden. It is herb of religious and medicinal importance. Recently, its commercial cultivation has started in Chhattisgarh. The infestation of *Lyncestis* caterpillars is common in Chhattisgarh. The traditional healers consider this problematic pest as medicinal insect. Through the Ethno-entomological surveys conducted in different parts of Chhattisgarh in recent past, I have collected valuable information on this aspect. The full fed caterpillars are used both internally as well as externally. It is used internally after purification. The caterpillars are dipped in Neem leaf extract before using it as medicine. After dipping it upto two hours, the caterpillars are dried and converted into powder. This caterpillar powder is considered very useful in treatment of respiratory troubles. It is added in popular herbal combinations as main ingredient. According to the healers, without this powder most of the formulations are incomplete. Externally, in combination with Cow urine and Kali Mitti (Black soil), the caterpillar powder is used externally in treatment of Daad (Ring worm). It is applied on affected parts in

form of aqueous paste. As other promising alternatives are available to manage the Daad effectively, the healers use this combination less commonly. From documentation point of view it is an important information. The healers are not aware of its other traditional medicinal uses.

The above mentioned traditional medicinal uses have yet not been reported in reference literatures. I am feeling fortunate to document this important traditional medicinal knowledge.

#### **New comments added on May, 2014**

*Through recent surveys I have collected information about over 5000 Formulations in which Lyncestis is added as important ingredient. In Sphaeranthus based Formulations for Leucorrhea it is added as secondary ingredient. These Formulations are popular among the Traditional Healers of Chhattisgarh, Odisha, Jharkhand, West Bengal and Andhra Pradesh. In Curculigo based Formulations for patients recovering from exhaustive diseases it is added as tertiary ingredient. These Formulations are used with much care. In Tectona based Formulations for Bone diseases Lyncestis is added as denary ingredient. According to the Healers Lyncestis plays key role in these Formulations. In Medicinal Rice Jhiya based Formulations of Bastar it is added as quinary ingredient. These Formulations are used for treatment of gynecological diseases. In treatment of Migraine the Healers of North Chhattisgarh use Xanthium and Chenopodium based Formulations. In these Formulations Lyncestis is added as nonary ingredient. In Prem Phool based Formulations of Gandhamardan Hills it is added as secondary, tertiary and quinary ingredients. These Formulations are used in treatment of diseases of male genitalia. In Cypridium based Formulations of Jharkhand it is added as septenary ingredient. These Formulations are used in treatment of Piles. In Cypridium based Formulations of Bastar it is added as senary ingredient. These Formulations are used at early stages of Sick Cell Anemia. In Nervilia based Formulations of West Bengal it is added as octonary ingredient. These Formulations are used in treatment of Rheumatism. For information on complete formulations and dsage please visit [pankajoudhia.com](http://pankajoudhia.com)*

Thank you very much for reading the article.

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## **Citation**

**Oudhia, Pankaj (2014). Traditional medicinal knowledge about *Lyncestis amphix* Cr. (Lepidoptera: Noctuidae) feeding on Tulsi (*Ocimum sanctum*) in Chhattisgarh, India. Updated Version. [pankajoudhia.com](http://pankajoudhia.com)**

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**Traditional medicinal knowledge about *Nezara viridula* L. feeding on medicinal herb Punir Phool (*Withania coagulans*) in Chhattisgarh, India. Updated Version.**

**Pankaj Oudhia**

## Introduction

**Entomophagy and Entomotherapy are well known in Asia since generations. Unfortunately not much work has been done to document valuable Traditional Medicinal Knowledge about Insects. Pankaj Oudhia is documenting this knowledge since year 1990. The present note “Traditional medicinal knowledge about *Nezara viridula* L. feeding on medicinal herb Punir Phool (*Withania coagulans*) in Chhattisgarh, India.” is updated version of his previously published online research document available through [pankajoudhia.com](http://pankajoudhia.com).**

**Keywords: Entomophagy; Entomotherapy; Medicinal Insects; Ayurveda; Chhattisgarh;**

Punir Phool (*Withania coagulans*), also known as Vegetable rennet or Indian Cheese maker is a small shrub grows as wasteland plant in Chhattisgarh. Its fruits are used in preparing cheese. For the traditional healers of Chhattisgarh Punir is a valuable medicinal herb. Its fruits are used for liver complaints, asthma and biliousness. Many insect species attack this herb in wild. Pentatomid bug *Nezara viridula* is one of these insect species. *Nezara* is polyphagous insect and it is problematic pest for many agricultural crops. During the Ethno-entomological surveys conducted in different parts of Chhattisgarh in recent past, I have observed that the traditional healers use the *Nezara viridula* feeding on Punir as medicinal insect. The full fed bugs are collected and after shade drying converted into powder. The traditional healers specialized in treatment of diabetes use the powder alone (at initial stages) and in combination with medicinal herbs (in complicated cases) for treatment. According to the traditional healers they are using *Nezara* bug since time immemorial. In early days the problem of diabetes was not common. Now the patients are increasing and this is the reason the healers are using the powder more frequently. I have mentioned in previous articles that in many parts of Chhattisgarh the flowers of Punir are used in treatment of diabetes. The flowers are dipped in water whole night and next morning leachate is taken internally as treatment. The traditional healers consider the insect powder more promising than the Punir flower leachate. In general, the traditional healers do not disclose the secret of use of insect powder. The healers aware of an importance of on-going documentation work informed me about this addition. During the surveys, I got the opportunities to interact with the patients getting benefits from this powder. Their encouraging response clearly indicated that there is a strong need of systematic research on this aspect without any delay. The traditional healers are not aware of other uses of this insect.

The above mentioned traditional medicinal use of *Nezara viridula* feeding on Punir has yet not been reported in reference literatures. Through the present research article, this information is coming among the world community, for the first time.



## **New comments added on May, 2014**

*Through recent surveys I have collected information about over 5000 Formulations in which Nezara collected from Punir Phool plants is added as important ingredient. These Formulations are used for diseases of Pancreas. In Syzygium based Formulations for Revitalization of Pancreas Nezara is added as tertiary ingredient. In Azadirachta based Formulations it is added as quaternary ingredient. In Embelia based Formulations of Bastar it is added as secondary ingredient. In old cases of Diabetes the Traditional Healers of Gandhamardan Hills use Feronia based Formulations. Nezara is added as nonary ingredient in these Formulations. In Blumea based Formulations it is added as secondary ingredient with Momordica. In Mucuna based Formulations for early stages of Diabetes it is added as quinary ingredient. In Memecylon based Formulations of Odisha it is added as senary ingredient. These Formulations are popular among the Healers. In Schefflera based Formulations it is added as septenary ingredient. Based on the condition of the patients many times it is added as quinary and secondary ingredients. In Ochreinauclea based Formulations it is added as octonary ingredient. These Formulations are used with much care by the Healers.*

*In treatment of Lannea toxicity the Traditional Healers use Buchanania based Formulations. In these Formulations Nezara is added as denary ingredient. In treatment of Paspalum toxicity the Healers use Wrightia based Formulations. Nezara is added as senary ingredient in these Formulations. In Habnaria based Formulations for Entada Toxicity Nezara is added as secondary ingredient. For complete information on Formulations and dosage please visit [pankajoudhia.com](http://pankajoudhia.com)*

Thank you very much for reading the article.

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## Citation

**Oudhia, Pankaj (2014). Traditional medicinal knowledge about *Nezara viridula* L. feeding on medicinal herb Punir Phool (*Withania coagulans*) in Chhattisgarh, India. Updated Version. [pankajoudhia.com](http://pankajoudhia.com)**

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**Traditional medicinal knowledge about *Agonoscelis nubila* F. feeding on Asgandh (*Withania somnifera*) in Chhattisgarh, India. Updated Version.**

**Pankaj Oudhia**

## Introduction

Entomophagy and Entomotherapy are well known in Asia since generations. Unfortunately not much work has been done to document valuable Traditional Medicinal Knowledge about Insects. Pankaj Oudhia is documenting this knowledge since year 1990. The present note “Traditional medicinal knowledge about *Agonoscelis nubila* F. feeding on Asgandh (*Withania somnifera*) in Chhattisgarh, India.” is updated version of his previously published online research document available through [pankajoudhia.com](http://pankajoudhia.com).

**Keywords:** Entomophagy; Entomotherapy; Medicinal Insects; Ayurveda; Chhattisgarh;

*Agonoscelis nubila* F. is a polyphagous pentatomid bug. It is one of the common pests of agricultural crops in Chhattisgarh. In Bilaspur region, it attacks the wild population of Asgandh (*Withania somnifera*). Asgandh is well known medicinal herb and popularly known as Indian Ginseng. Although Asgandh is present in wild in many parts of Chhattisgarh and also it is under cultivation as medicinal crop but the infestation of this pentatomid has been observed in Bilaspur region only. The traditional healers of this region are not only aware of medicinal properties and uses of Asgandh but also they use *Agonoscelis* feeding on Asgandh as medicine. Through the Ethno-entomological surveys conducted in this part of Chhattisgarh, I have collected valuable information on this aspect. The traditional healers use full fed Bugs both internally as well as externally in treatment of many common diseases. As traditional secret, most of the traditional healers do not give any detail. Through frequent visits, and by convincing the healers about the importance of on-going document work, I got information on its use for treatment of respiratory troubles and joint pain. Unlike other insect based drugs, used in combination with herbs, the

traditional healers use the insect alone as medicine. In treatment of Asthma, the Bugs are used in form of powder. The full fed Bugs are collected and dried in shade. After drying, powder is prepared. This powder is given in combination with Shahad (honey) to the patients. The dose varies from few pinches to teaspoonful powder. According to the healers, by nature, this powder is hot and they decide the dose on the basis of the vitality of patient. They are aware that by adding medicinal herbs they can reduce the possible harmful effects of overdoses but they do not prefer it. The powder is used as preventive and curative to Asthma. In general, they do not inform the patients that what they are giving as medicine.

#### **New comments added on April 20, 2007**

When I shared information about this bug with the Traditional Healers of other parts of Chhattisgarh Plains many Healers specially senior Healers informed that they are aware of its medicinal uses. They confirmed its polyphagus nature. The Healers of Bagbahera region claimed that this bug infests wild Asgandh in nearby forest. They showed surprise on its use as single remedy by the Healers of Bilaspur and informed that medicinal insects are always used in combination with medicinal herbs as pure insect may cause harms due to toxins. They disclosed about its medicinal use in treatment of respiratory troubles in combination with *Moringa oleifera* plant parts specially flowers and leaves. They use it during initial stages. In Asthma they use herbal combinations.

The Healers of Durg region also informed that they use this medicinal insect but when I requested them to show the insect they showed another species of bug not exactly this species. They claimed that it was collected from Asgandh plant. They also not use it as single remedy. They add it in over 20 herbal combinations as important ingredient. Surprisingly in these combinations Asgandh is not added.

The Healers of Dhamtari region informed that in early days this insect was in use as medicinal insect. Now none of them is practicing knowledge about it. It seems that this knowledge is in danger. Many Herb Vendors of this region also identified this insect as medicinal insect. I am trying hard to get more information about it.

In treatment of joint pains, the Bugs are used in form of special oil. The freshly collected Bugs are boiled in base oil. When all watery contents evaporate the boiling is stopped and special oil is

collected for future use. This special oil is massaged gently on painful parts as medicine. In general, the healers prepared it in bulk during the infestation time and give it to the patients in small quantity for the use. Both uses of *Agonoscelis* are very popular among the healers. They have deep faith in these traditional formulations.

#### **New comments added on April 20, 2007**

Through recent interactions with the Healers of Bilaspur region I got very little but important information about this oil. They presented me this oil. They informed about use of Sarson oil as base oil in this special oil. For better effect the use of sun method for preparation of oil is preferred. They prefer use of freshly collected insects. Old stored insects are used in dry form in Asthma treatment. After seeing some green residues in oil when I asked about it they refused to give any more information. I am not sure but it seems that they add herbs with this insect in order to make this oil more useful. Few years back when I interacted with them they showed me oil free from any such residues. This observation indicates that much information is still with them and more visits are required for getting it.

These traditional medicinal uses have yet not been reported in reference literatures. Through the present research article, it is coming among the world community for the first time.

#### **New comments added on April 20, 2007**

For young researchers willing to conduct clinical trials based on this traditional knowledge I have list of some more combinations based on my experience on this aspect. I suggest them to try it in clinical trials.

Insect Based Formulation No. 1-*Agonoscelis nubila* F. +*Trombidium grandissimum*

Insect Based Formulation No. 2-Agonoscelis nubila F. +Vitex negundo

Insect Based Formulation No. 3-Agonoscelis nubila F. +Oecophylla smaragdina

Insect Based Formulation No. 4-Agonoscelis nubila F. +Plumbago sp.

Insect Based Formulation No. 5-Agonoscelis nubila F. +Nicotiana tabacum

Insect Based Formulation No. 6-Agonoscelis nubila F. +Mentha sp.

Insect Based Formulation No. 7-Agonoscelis nubila F. +Pterocarpus marsupium

Insect Based Formulation No. 8-Agonoscelis nubila F. +Calotropis gigantea

Insect Based Formulation No. 9-Agonoscelis nubila F. +Cissus quadrangularis

All these combinations are useful for joint pain. These combinations must be prepared using Sarson as base oil. Many innovative Healers are trying these combinations. Although it is not part of their traditional knowledge but they want to add something new in this knowledge. You are welcomed to get more information, if required.

#### **New Comments added on May, 2014**

*Through recent surveys I have collected additional information on medicinal uses of Agonoscelis collected from Withania plants. In treatment of Boerhavia Toxicity the Traditional Healers use Diospyros based Formulations. In these Formulations Agonoscelis is added as secondary ingredient. In Buchanania and Blumea based Formulations used for Litsea Toxicity Agonoscelis is added as quaternary ingredient. In Mangifera based Formulations for Cynodon Overdose Agonoscelis is added as tertiary ingredient. In Bombax based Formulations used for Moringa*

*excess Agonoscelis is added as senary ingredient. In Dalbergia based Formulations for Echinops Toxicity Agonoscelis is added as nonary ingredient. In Datura based Formulations for Trombidium excess Agonoscelis is added as denary ingredient. In Tacca based Formulations of Gandhamardan Hills used for Asparagus excess Agonoscelis is added as septenary ingredient. In Cocos based Formulations for Hedychium Toxicity Agonoscelis is added as octonary ingredient. In Rosa based Formulations for Calotropis excess Agonoscelis is added as quinary ingredient. For complete information on Formulations and dosage please visit [pankajoudhia.com](http://pankajoudhia.com)*

Thank you very much for reading the article.

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## **Citation**

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**Traditional medicinal knowledge about Tea Mosquito Bug *Helopeltis antonii* Sign. feeding on Jam (*Psidium guajava*) fruits in Chhattisgarh, India. Updated Version.**

**Pankaj Oudhia**

**Introduction**



**Entomophagy and Entomotherapy are well known in Asia since generations. Unfortunately not much work has been done to document valuable Traditional Medicinal Knowledge about Insects. Pankaj Oudhia is documenting this knowledge since year 1990. The present note “Traditional medicinal knowledge about Tea Mosquito Bug *Helopeltis antonii* Sign. feeding on Jam (*Psidium guajava*) fruits in Chhattisgarh, India.” is updated version of his previously published online research document available through [pankajoudhia.com](http://pankajoudhia.com).**

**Keywords: Entomophagy; Entomotherapy; Medicinal Insects; Ayurveda; Chhattisgarh;**

Jam (Guava) is well known fruit crop in Chhattisgarh. Many varieties of Guava are under cultivation in Chhattisgarh. I have mentioned in previous articles that the natives and traditional healers of the state are not only aware of medicinal properties and uses of Guava plant parts but also they use the insects feeding on it, as medicinal insect. Tea Mosquito Bug *Helopeltis anatonii* (Miridae: Hemiptera) is one of the problematic pests of Guava plant. It damages the Fruits. During the Ethno-entomological surveys conducted in different parts of Chhattisgarh, I have observed that the traditional healers of Nagri-Sihawa and Gariaband regions of Chhattisgarh use Tea Mosquito Bug feeding on Guava fruits as medicine. The full fed bugs are collected in bulk and after shade drying use it in very small amount as medicine. The dry bugs are added in many herbal formulations. I have listed out nine such formulations in which these bugs are added as main ingredients. These formulations are used mainly in treatment of liver related troubles. The traditional healers informed that by nature, Tea Mosquito bugs are hot and possess some toxic contents that are unfit for human body in bulk amount. In treatment of Jaundice, many healers give the dry bugs in combination with Bhuiaonla (*Phyllanthus amarus*). Bhuiaonla is well known herb for Jaundice. The healers claim that Bhuiaonla possess some properties that nullifies the harmful effects of Tea Mosquito bug. According to the healers, they are using this bug as medicine since generations as traditional knowledge. I have noted during the survey that many herb vendors sell the dry bug collected from Guava rich regions, to the traditional healers. The healers of Chhattisgarh are not aware of any other uses of this bug.

The traditional medicinal uses of Tea Mosquito Bug feeding on Guava fruits have not been reported in reference literatures. I am thankful to the Mother Nature, for giving me opportunity to document this important traditional knowledge.

**New Comments added on May, 2014**

*Through recent surveys I have collected additional information about medicinal uses of Helopeltis. It is added in over 7000 Formulations used for different liver related diseases. In*

*Mukia based Formulations it is added as nonary ingredient. These Formulations are used at early stage of liver diseases. In Ponerorchis based Formulations it is added as senary ingredient. These Formulations are used for complicated cases of liver infection. In treatment of Jaundice the Traditional Healers of Bastar use Habenaria and Vanda based Formulations. In these Formulations Helopeltis is added as quaternary ingredient. It is added as secret ingredient and the Healers rarely share any information about it even with the close Chelas. In Gymnadenia based Formulations it is added as quinary ingredient along with Curculigo and Tacca. In Andrographis based Formulations for old cases of liver diseases the Healers add it as septenary ingredient. In Cassia based Formulations it is added as denary ingredient. In Nervilia based Formulations for Hepatitis it is added as tertiary ingredient. In Meiogyne based Formulations it is added as secondary and nonary ingredient based on the viability of the patients.*

*In Ixora based Formulations for Miliusa Toxicity Helopeltis is added as quinary ingredient. In Terminalia based Formulations for Fimbristylis Toxicity it is added as quaternary ingredient. In Acorus based Formulations for Boerhavia Overdose it is added as senary ingredient. In Elaeocarpus based Formulations for Entada Toxicity it is added as denary ingredient. For complete information on formulations and dosage please visit [pankajoudhia.com](http://pankajoudhia.com)*

Thank you very much for reading the article.

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## Citation

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**Traditional medicinal knowledge about *Aleuroclava maytenii* feeding on Bade Peng (*Celastrus maytenus*) in Chhattisgarh, India. Updated Version.**

**Pankaj Oudhia**

## Introduction

Entomophagy and Entomotherapy are well known in Asia since generations. Unfortunately not much work has been done to document valuable Traditional Medicinal Knowledge about Insects. Pankaj Oudhia is documenting this knowledge since year 1990. The present note "Traditional medicinal knowledge about *Aleuroclava maytenii* feeding on Bade Peng (*Celastrus maytenus*) in Chhattisgarh, India." is updated version of his previously published online research document available through [pankajoudhia.com](http://pankajoudhia.com).

**Keywords: Entomophagy; Entomotherapy; Medicinal Insects; Ayurveda; Chhattisgarh;**

Botanically Bade Peng is a small tree. Like Peng (*Celastrus paniculatus*), Bade Peng (*Celastrus maytenus*) is also a common tree that grows in wild. It is also planted as ornamental herb in public gardens. The natives and traditional healers have rich traditional medicinal knowledge about Bade Peng. Since generations it is in use as folk medicine. In natural forests the attack of *Aleuroclava maytenii* is common throughout Chhattisgarh. During the Ethno-entomological surveys conducted in different parts of Chhattisgarh in recent past, I have observed that the

traditional healers specialized in treatment of different types of cancer commonly use the full fed nymphs as medicine. The full fed nymphs are collected and dried in shade. After drying in powder form it is used as medicine. Many healers use this powder after purification. For purification the powder is dipped in the bark decoction of Karra (*Cleistanthus collinus*) for two-three hours. After this duration the decoction is boiled and powder is collected. This purified powder is used externally. It is applied on cancerous wounds. According to the traditional healers, the application of purified powder not only kills the germs but also accelerate the rate of healing. It is used along with internal treatment. Many healers use the insect powder in combination with medicinal herbs but majority of the healers confirmed that alone purified powder is capable of treating the wounds. As secret knowledge most of the healers do not disclose the use of insect powder and the process of purification. During the infestation time, the traditional healers can be seen at forest collecting the nymphs. The traditional healers living in parts where Bade Peng not grows naturally depend on the herb vendors for the supply of powder. Unfortunately, they are not aware of testing method to test whether the powder is genuine or not. It is a faith that the healers are dependent on the herb vendors and using it in treatment of cancerous wounds successfully. The traditional healers are not much aware of its other traditional medicinal uses.

In reference literatures, *Aleuroclava maytenii* feeding on *Celastrus maytenus* has not been reported as medicinal insect. As the cancer is common problem and research studies are in progress in different parts of the world to find out its complete cure, I feel that in this context, the traditional knowledge about *Aleuroclava maytenii* will be of great importance for the researchers around the world.

#### **New Comments added on May, 2014**

*Through recent surveys I have collected additional information regarding use of Aleuroclava collected from Celastrus in treatment of cancer and associated troubles. It is added as important ingredient in over 3000 Formulations used both internally as well as externally. In Helicteres based Formulations it is added as quaternary ingredient. In Melia based Formulations it is also added as quaternary ingredient but Trombidium is also added in equal proportion as quaternary ingredient. In Echinochloa based Formulations it is added as secondary ingredient. In these Formulations different types of millets are used. These Formulations are used internally. In Medicinal Rice Mundaria based Formulations it is added as quinary ingredient. In Mimosa based Formulations of Gandhamardan Hills it is added as tertiary ingredient. These Formulations are used internally and many times externally also. These Formulations are popular among the Traditional Healers. The Healers of Bastar are also aware of these Formulations. In Ocimum and Leucas based Formulations it is added as nonary ingredient*

*along with Saccharum. In Chlorophytum based Formulations it is added as septenary ingredient with Telia Kand. In Ipomoea based Formulations for cancer complications it is added as octonary ingrediency along with Hymenodictyon. In Medicinal Orchid based Formulations of West Bengal it is added as denary ingredient. The Healers claimed that it plays key role in the Formulations. In Cissus based Formulations it is added as senary ingredient with Costus. These Formulations are used for early stages of cancer. In Echinops and Madhuca based Formulations it is added as nonary ingredient with Tacca. For complete information on Formulations and Dosage please visit [pankajoudhia.com](http://pankajoudhia.com)*

Thank you very much for reading the article.

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## Citation

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**Traditional medicinal knowledge about White Fly *Indoaleyrodes* sp. feeding on Ankol [*Alangium salviifolium* (L.f.) Wangerin] in Chhattisgarh, India. Updated Version.**

**Pankaj Oudhia**

## Introduction

**Entomophagy and Entomotherapy are well known in Asia since generations. Unfortunately not much work has been done to document valuable Traditional Medicinal Knowledge about Insects. Pankaj Oudhia is documenting this knowledge since year 1990. The present note “Traditional medicinal knowledge about White Fly *Indoaleyrodes* sp. feeding on Ankol [*Alangium salviifolium* (L.f.) Wangerin] in Chhattisgarh, India.” is updated version of his previously published online research document available through [pankajoudhia.com](http://pankajoudhia.com).**

**Keywords: Entomophagy; Entomotherapy; Medicinal Insects; Ayurveda; Chhattisgarh;**

According to the reference literatures, Ankol (*Alangium salviifolium*) is a small tree with edible fruits. It is found throughout the country particularly in drier parts. The wood is used for making musical instruments, and an alkaloid from bark is said to lower blood pressure. In Chhattisgarh Ankol is well known tree of medicinal importance. Its all parts are used very commonly as traditional medicine. During the Ethno-entomological surveys conducted in different parts of Chhattisgarh, I have observed that the traditional healers of Ankol rich regions of Southern Chhattisgarh use *Indoaleyrodes* sp. feeding on this tree as medicinal insect. Both nymphs and adults are used but nymphs are used more commonly. I have mentioned in previous articles that the healers of Chhattisgarh use many herb and insect based formulations to nullify the harmful effects of rat-bite. The traditional healers of Southern Chhattisgarh prepare full fed nymph based herbal combinations for this purpose. Many healers mix the dry insect powder with cow urine and in form of an aqueous paste, apply it on affected part. According to the traditional healers both internal as well as external uses at a time cures the trouble effectively in very less time. In



treatment of Diarrhoea, the traditional healers of Charama region mix the dry insect powder with Dahi (Curd) and give the combination to the patients, many times a day, till complete cure. It is considered as one of the promising treatments. In general, the healers do not inform the patients that they are using insect powder. Many healers consider it useful in treatment of bronchitis but as other promising alternatives are available it is used less commonly. The traditional healers of Narharpur region boil the full fed freshly collected nymphs in base oil to prepare special oil. This special oil is used as cure for burning sensations in soles and palms. The special oil is massaged gently on affected parts. I have tried it successfully many times. The traditional healers of other regions of Chhattisgarh are not much aware of these uses.

These traditional medicinal uses of *Indoaleyrodes* sp. feeding on Ankol have yet not been reported in reference literatures. It is a matter of appreciation that the traditional healers of Southern Chhattisgarh are not only aware of these uses but also they are practicing this traditional knowledge in their daily life. I am feeling fortunate to document this important traditional medicinal knowledge.

#### **New Comments added on May, 2014**

*Through recent surveys I have collected information about over 5500 Formulations in which Indoaleyrodes collected from Alangium is used as important ingredient. These Formulations are used in treatment of neurological disorders and diseases. In Ceropegia based Formulations it is added as denary ingredient. These Formulations are used at early stage of diseases. In Chlorophytum based Formulations of Andhra Pradesh it is added as nonary ingredient. In Mukia based Formulations it is added as tertiary ingredient with Trombidium and Vanda. In Pterospermum based Formulations it is added as quaternary ingredient. In Rosa based Formulations it is added as senary ingredient. In Cynodon based Formulations of Bastar it is added as senary ingredient. In complicated cases the Traditional Healers use Belosynapsis based Formulations. In these Formulations Indoaleyrodes is added as quinary ingredient. In Schleicheria and Wrightia based Formulations it is added as septenary ingredient. In Sauromatum based Formulations it is added as octonary ingredient with Ficus.*

*In case of Martynia Toxicity the Traditional Healers use Xanthium based Formulations. In these Formulations Indoaleyrodes is added secondary ingredient. In case of Allium overdose the Healers use Amaranthus based Formulations. In these Formulations Indoaleyrodes is added as quinary ingredient. In case of White Butea Overdose the Healers use Cuscuta based Formulations. In these Formulations Indoaleyrodes and Abutilon are added as senary ingredient. For complete information on Formulations and dosage please visit [pankajoudhia.com](http://pankajoudhia.com)*

Thank you very much for reading the article.

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**Traditional medicinal knowledge about White fly *Rhachisphora trilobitoides* (Quaintance & Baker, 1917) feeding on Tendu (*Diospyros melanoxylon*) in Chhattisgarh, India. Updated Version.**

**Pankaj Oudhia**

## Introduction

Entomophagy and Entomotherapy are well known in Asia since generations. Unfortunately not much work has been done to document valuable Traditional Medicinal Knowledge about Insects. Pankaj Oudhia is documenting this knowledge since year 1990. The present note “Traditional medicinal knowledge about White fly *Rhachisphora trilobitoides* (Quaintance & Baker, 1917) feeding on Tendu (*Diospyros melanoxylon*) in Chhattisgarh, India.” is updated version of his previously published online research document available through [pankajoudhia.com](http://pankajoudhia.com).

**Keywords: Entomophagy; Entomotherapy; Medicinal Insects; Ayurveda; Chhattisgarh;**

According to the reference literatures, Tendu is a tree distributed in many parts of India. Its fruits are edible and leaves are used for wrapping bidis, popular smoke of Indians. Its wood is used for shafts, poles, brush-backs, walking-sticks, turnery, carving and billiard cues and bark and half ripe fruits are used for tanning. The species is considered important for afforestation purposes. In Chhattisgarh Tendu is also known for its valuable medicinal properties. I have observed the infestation of White fly *Rhachisphora trilobitoides* only in Keshkal region of Chhattisgarh. The traditional healers of this region are well aware of medicinal uses of Tendu as well as the insect (i.e. *Rhachisphora trilobitoides*) feeding on it. During the Ethno-entomological surveys

conducted in recent past, I have collected valuable information regarding its traditional medicinal uses in this region. The full fed nymphs are added in dry powder form, in almost all popular herbal combinations used as sex tonic. The traditional healers informed that they are aware of its aphrodisiac properties since generations. The insect powder alone is not used for this purpose. The traditional healers use the insect powder alone in treatment of liver related troubles. It is given internally in small doses with Shahad (Honey). In general, the traditional healers keep the patients under their supervision during the use of insect powder. It is its effectiveness that this powder is very popular among the traditional healers. I have observed during the survey that many herb vendors sell this powder to the traditional healers and interested persons of neighbouring states. Many healers prepare special oil by boiling the full fed nymphs in Sarson (Mustard seed) oil. This special oil is used externally in treatment of joint pains, but as other promising alternatives are available, it is used less commonly by the traditional healers. The traditional healers of Keshkal region adopt special collection procedures during the collection of nymphs and adults. Many times they collect it with infested plant parts. The Tendu trees growing in isolation are preferred for the collection of insect. Very young trees are avoided.

In reference literatures, *Rhachisphora trilobitoides* feeding on Tendu is not mentioned as medicinal insect. This is a matter of appreciation that the traditional healers of Keshkal region are not only aware of its potential uses but also they are using it in their routine practice.

#### **New Comments added on May, 2014**

*Through recent surveys I have collected information about over 6000 Formulations in which Rhachisphora collected from Tendu is used as important ingredient. In Wood Mushroom based Formulations for liver diseases it is added as tertiary ingredient. In Phyllanthus based Formulations it is added as quinary ingredient. Early researchers have documented hundreds of Phyllanthus based Formulations for liver diseases but they have mentioned that many of these Formulations were not as effective as claimed by the Traditional Healers. Addition of secret ingredients like Rhachisphora is one of the reasons responsible for it. The Healers rarely disclose information about these secret ingredients. The Traditional Healers of Kalahandi region are also aware of its medicinal uses. They added it in Shorea and Mitragyna based Formulations as quaternary ingredient. In Medicinal Rice Laicha based Formulations it is added as senary ingredient. The Traditional Healers of Gandhamardan Hills use it as denary ingredient in Carthamus based Formulations for Liver Diseases. The Traditional Healers of Jharkhand add it as nonary and secondary ingredient in Butea and Bacopa based Formulations.*

*In case of Mallotus Excess the Traditional Healers use Croton based Formulations. In these Formulations Rhachisphora is added as tertiary ingredient. In case of Cryptocarya Toxicity the Healers use Terminalia chebula based Formulations. In these Formulations Rhachisphora is*

*added as septenary ingredient. In case of Achyranthes Toxicity the Healers use Litsea based Formulations. In these Formulations Rhachisphora is added as octonary ingredient. In case of Symplocos Overdose the Healers use Lagenaria based Formulations. In these Formulations Rhachisphora is added as quinary ingredient. For details about complete Formulations and dosage please visit [pankajoudhia.com](http://pankajoudhia.com)*

Thank you very much for reading the article.

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## Citation

**Oudhia, Pankaj (2014). Traditional medicinal knowledge about White fly *Rhachisphora trilobitoides* (Quaintance & Baker, 1917) feeding on Tendu (*Diospyros melanoxylon*) in Chhattisgarh, India. Updated Version. [pankajoudhia.com](http://pankajoudhia.com)**

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**Traditional medicinal knowledge about White fly *Aleuroclava wrightiae* Jesudasan & David, 1991 feeding on Kuchla (*Strychnos nux-vomica*) in Chhattisgarh, India. Updated Version.**

**Pankaj Oudhia**

## Introduction

**Entomophagy and Entomotherapy are well known in Asia since generations. Unfortunately not much work has been done to document valuable Traditional Medicinal Knowledge about Insects. Pankaj Oudhia is documenting this knowledge since year 1990. The present**



**note “Traditional medicinal knowledge about White fly *Aleuroclava wrightiae* Jesudasan & David, 1991 feeding on Kuchla (*Strychnos nux-vomica*) in Chhattisgarh, India.” is updated version of his previously published online research document available through [pankajoudhia.com](http://pankajoudhia.com).**

**Keywords: Entomophagy; Entomotherapy; Medicinal Insects; Ayurveda; Chhattisgarh;**

According to the reference literatures, Kuchla is a tree occurring throughout tropical India. Its seeds are source of drug 'nux vomica' which is used as tonic and stimulant. It is also used in treatment of nervous disorders. The seeds are added to beverages to make them intoxicating. Its Timber is handsome and is used for agricultural implements, fancy cabinet work and as ornamental panels. In Chhattisgarh, Kuchla is well known medicinal tree. The natives and traditional healers have in depth traditional medicinal knowledge about Kuchla. Many insect species attack on Kuchla tree in wild. The Whitefly *Aleuroclava wrightiae* is one of these insect species. During the Ethno-entomological surveys conducted in different parts of Chhattisgarh, in recent past, I have observed that the traditional healers of Bastar region use both nymphs and adults as medicine. This region of Chhattisgarh is rich in natural population of Kuchla trees. The traditional healers boil the freshly collected full fed nymphs and adults in Sarson (Mustard seed) oil and when all watery content evaporate, the boiling is stopped and special oil is kept for future use. This special oil is used for various purposes. This special oil is considered as a boon for the patients having the problem of Lakwa (Paralysis). In small quantity, the oil is massaged gently on numb parts. I have mentioned in previous articles that the traditional healers of Chhattisgarh Plains use Red Velvet mite (*Trombidium sp.*) in same way in treatment of Paralysis. The healers of Bastar region informed that the nymphs feeding on Kuchla are hot in nature. This is the reason it is used successfully in treatment of Paralysis. Many healers add many medicinal herbs in this special oil in order to make it more useful but most of the healers use the oil without medicinal herbs. You will be surprised to know that many traditional healers suggest their patients to apply the same oil on anus in order to get rid from Bavasir (Piles). As other promising alternatives are available, it is used less commonly for this purpose. But from documentation point of view, it is important information. The traditional healers of other regions of Chhattisgarh are not much aware of these uses.

In reference literatures, *Aleuroclava wrightiae* is not mentioned as medicinal insect. This research article is the first written document describing its traditional medicinal uses in Chhattisgarh.

**New Comments added on May 2014**

*Through recent surveys I have collected information about over 8500 Formulations in which Aleuroclava collected from Kuchla is used as important ingredient. In treatment of Nervous disorders the Traditional Healers of Bastar use Cyperus based Formulations. In these Formulations Aleuroclava is added as denary ingredient. The Healers use Aleuroclava after long purification methods. I have documented information about ten methods of purification. In these methods they use over 30 species of herbs mostly wild herbs. In Acorus based Formulations for Liver diseases Aleuroclava is added as nonary ingredient by the Healers of Chhattisgarh Plains. It is added as secret ingredient. In treatment of Mental Depression the Healers of Orissa use Celastrus based Formulations. In these Formulations Aleuroclava is used as octonary ingredient along with 7 wild herbs. Medicinal orchids are also used in these Formulations with Aleuroclava. In Pluchea based Formulations of Gandhamardan Hills the Healers add Aleuroclava as septenary ingredient. These Formulations are used for treatment of Neurasthenia. For complicated cases of nervous disorders the Healers use Rauvolfia based Formulations. In these Formulations Aleuroclava is added as senary ingredient. These Formulations are popular among the expert Healers. In Medicinal Rice Jhiya based Formulations it is added as septenary ingredient along with millets. These Formulations are used for treatment of liver complaints. In Telia Kand based Formulations for early stages of nervous disorder Aleuroclava is added as quinary ingredient. Many times it is added as senary ingredient also.*

*In case of Shorea Toxicity the Healers use Curcuma and Aloe based Formulations. In these Formulations Aleuroclava is added as quaternary ingredient. The Healers use these Formulations under their strict supervision. They are not in favour of its long term use. In case of Gymnema excess the Healers use Terminalia bellirica based Formulations. In these Formulations Aleuroclava is added as tertiary ingredient. For complete information on Formulations and dosage please visit [pankajoudhia.com](http://pankajoudhia.com)*

Thank you very much for reading the article.

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## Citation

**Oudhia, Pankaj (2014). Traditional medicinal knowledge about White fly *Aleuroclava wrightiae* Jesudasan & David, 1991 feeding on Kuchla (*Strychnos nux-vomica*) in Chhattisgarh, India. Updated Version. [pankajoudhia.com](http://pankajoudhia.com)**

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**Traditional medicinal knowledge about Memri White Fly *Aleuroclava singhi* Sundararaj & David, 1991 feeding on Memri (*Ocimum canum* Sims) in Chhattisgarh, India. Updated Version.**

**Pankaj Oudhia**

## **Introduction**

**Entomophagy and Entomotherapy are well known in Asia since generations. Unfortunately not much work has been done to document valuable Traditional Medicinal Knowledge about Insects. Pankaj Oudhia is documenting this knowledge since year 1990. The present note “Traditional medicinal knowledge about Memri White Fly *Aleuroclava singhi* Sundararaj & David, 1991 feeding on Memri (*Ocimum canum* Sims) in Chhattisgarh, India.” is updated version of his previously published online research document available through [pankajoudhia.com](http://pankajoudhia.com).**

**Keywords: Entomophagy; Entomotherapy; Medicinal Insects; Ayurveda; Chhattisgarh;**

According to the reference literatures, Memri is an erect herb found throughout India. The plant is used as pot-herb. The leaves are used for flavouring sources, soups and salads. The seeds are considered as diuretic and tonic and are used in the preparation of cooling drinks. The decoction of plant is taken for cough, that of leaves for dysentery. It is also used as mouth wash for relieving toothache. In Chhattisgarh, Memri grows as wasteland and field weed. The farmers have kept this herb in the category of medicinal weeds. The traditional healers use its all parts as medicine. On its wild population many insect species attack. Memri White fly is one of these insects. During the Ethno-entomological surveys conducted in different parts of Chhattisgarh in recent past, I have observed that the traditional healers specialized in treatment of skin related troubles use the nymphs of Memri White fly as medicine. It is considered as promising blood purifier. The freshly collected nymphs are dried and converted into powder. This powder is given internally in combination with Shahad (Honey) as supplement to main treatment. Many healers add medicinal herbs with this powder in order to make it more promising but most of the healers are satisfied with the performance of insect powder. They are unable to explain whether the herb present inside the nymphs are giving the results or the insect itself is giving the desirable effects the traditional healers of Chhattisgarh Plains prepare a decoction by boiling full fed nymphs with Memri leaves in water. This decoction is used to wash the old wounds. According to the healers this application increases the healing rate. The traditional healers of Bastar region informed that the decoction can also be used to dress the cancerous wounds.

In reference literatures, Memri White fly is not mentioned as medicinal insect. The present research article is the first written document on this important aspect.

## **New Comments added on May, 2014**

*Through recent surveys I have collected information about over 9000 Formulations in which Aleuroclava collected from Memri is used as important ingredient. In Trigonella based Formulations for Blood Purification Aleuroclava is added as secondary ingredient. In Cassia fistula based Formulations for blood related diseases it is added as tertiary ingredient. In Terminalia arjuna based Formulations for Heart diseases it is added as quinary ingredient. In Diospyros based Formulations for blood related diseases it is added as senary ingredient. In Acacia catechu based Formulations for Sickle Cell Anemia it is added as senary ingredient. It is added as secret ingredient in these Formulations. These Formulations are popular among the Traditional Healers of Bastar and Gandhamardan Hills. In Citrullus based Formulations it is added as septenary ingredient. In Haldina based Formulations for Urticaria it is added as octonary ingredient. In Sterculia based Formulations for blood purification Aleuroclava is added as denary ingredient. In Dioscorea based Formulations for Blood Cancer it is added as nonary ingredient. Based on the condition of the patients it is also added as secondary ingredient.*

*In Nardostachys based Formulations for Skin Allergies it is added as quinary ingredient along with Cynodon. In Hyptis based Formulations for Blood purification it is added as senary ingredient.*

*In case of Toona Toxicity the Traditional Healers use Strychnos potatorum based Formulations. In these Formulations Aleuroclava is added as denary ingredient. In case of Litsea Excess the Healers use Tamarindus based Formulations. In these Formulations Aleuroclava is added asseptenary ingredient with Abrus. For complete information on Formulations and dosage please visit [pankajoudhia.com](http://pankajoudhia.com)*

Thank you very much for reading the article.

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## Citation

**Oudhia, Pankaj (2014). Traditional medicinal knowledge about Memri White Fly *Aleuroclava singhi* Sundararaj & David, 1991 feeding on Memri (*Ocimum canum* Sims) in Chhattisgarh, India. Updated Version. [pankajoudhia.com](http://pankajoudhia.com)**

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**Traditional medicinal knowledge about White fly *Lipaleyrodes euphorbiae* David & Subramaniam, 1976 feeding on Harpharevadi (*Phyllanthus acidus* L.) in Chhattisgarh, India. Updated Version.**

**Pankaj Oudhia**

## Introduction

Entomophagy and Entomotherapy are well known in Asia since generations. Unfortunately not much work has been done to document valuable Traditional Medicinal Knowledge about Insects. Pankaj Oudhia is documenting this knowledge since year 1990. The present note “Traditional medicinal knowledge about White fly *Lipaleyrodes euphorbiae* David & Subramaniam, 1976 feeding on Harpharevadi (*Phyllanthus acidus* L.) in Chhattisgarh, India.” is updated version of his previously published online research document available through [pankajoudhia.com](http://pankajoudhia.com).

**Keywords: Entomophagy; Entomotherapy; Medicinal Insects; Ayurveda; Chhattisgarh;**

Harpharevadi (*Phyllanthus acidus* syn. *Cicca acida*; *Averrhoa acida*) is a small tree under cultivation for its fruits, in Chhattisgarh. The natives know this tree from its fruits. For the traditional healers it is a valuable medicinal tree. The healers have rich traditional medicinal knowledge about Harpharevadi. Its all parts are used as traditional medicine. Although the infestation of White fly *Lipaleyrodes euphorbiae* is common in all parts of Chhattisgarh, but in Southern Chhattisgarh the percentage of infestation is very high. During the Ethno-entomological surveys conducted in different parts of Chhattisgarh in recent past, I have noted that the traditional healers of Southern Chhattisgarh use this insect as medicinal insect. As medicine, it is used both internally as well as externally. The full fed nymphs and adults are used in powder form. For preparation of powder, the nymphs and adults are dipped in specific solution after collection, for two hours. This specific solution is prepared by mixing the aqueous

extracts of Neem (*Azadirachta indica*) and Tulsi (*Ocimum sanctum*) leaves in equal proportions. The purpose of this dipping is to eliminate its toxic contents. After two hours, the nymphs and adults are dried in shade and after drying converted to powder. According to the traditional healers this powder can be used upto four years but as this insect is available easily, they prepare fresh powder every year. This powder is given internally as blood purifier. It is specially recommended to the patients having skin related troubles. Many healers use this powder in combination with medicinal herbs. Externally, the powder is used in treatment of respiratory troubles. The patients are suggested by the healers to burn the powder and inhale the fumes coming from it. The healers informed that by reaching in the lungs, the fumes act as germicide. I am not sure about the correctness of this explanation but I have observed during the survey that the healers have deep faith in this use. The traditional healers of other regions of Chhattisgarh are not aware of these traditional medicinal uses. Many healers of other regions informed me that the healers of Southern Chhattisgarh have gained this important knowledge from the herb vendors coming from neighbouring states where Harpharevadi is present since long time.

These traditional medicinal uses of White fly *Lipaleyrodes euphorbiae* feeding on Harpharevadi have not been mentioned in reference literatures. This research article is the first written document on this importance aspect.

#### **New Comments added on May, 2014**

*Through recent surveys I have collected information about over 5000 Formulations in which Lipaleyrodes is added as important ingredient. In Basella based Formulations it is added as tertiary ingredient. These Formulations are used for treatment of respiratory diseases specially when all remedies fail to give the desirable effects. In Tinospora based Formulations it is added as quinary ingredient. These Formulations are used at early stages of skin diseases. In treatment of Psoriasis the Traditional Healers use Costus and Lepidium based Formulations. In these Formulations Lipaleyrodes is added as senary and quinary ingredients based on the condition of the patients. In Echinops based Formulations of Gandhamardan Hills it is added as quaternary ingredient. These Formulations are used for skin allergies. In Tribulus based Formulations of Gujarat and Rajasthan it is added as denary ingredient. These Formulations are used for Eczema. These Formulations are popular among the Traditional Healers. In Strychnos and Careya based Formulations for Skin Cancer it is added as secret ingredient. In general it is added as septenary ingredient. In Peristylus fallax based Formulations it is added as octonary ingredient. These Formulations are used by the Traditional Healers of Odisha. In Habenaria furcifera based Formulations of Jharkhand used for treatment of Psoriasis Lipaleyrodes is added as secondary ingredient.*

*In case of Epipactis gigantea Toxicity the Traditional Healers use Medicinal Rice Maharaji based Formulations. In these Formulations Lipaleyrodes is added as quinary ingredient. In case*

*of Tridax Overdose the Healers use Tectona and Blumea based Formulations. In these Formulations Lipaleyrodes is added as senary ingredient. For information on complete Formulations and dosage please visit [pankajoudhia.com](http://pankajoudhia.com)*

Thank you very much for reading the article.

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## Citation

**Oudhia, Pankaj (2014). Traditional medicinal knowledge about White fly *Lipaleyrodes euphorbiae* David & Subramaniam, 1976 feeding on Harpharevadi (*Phyllanthus acidus* L.) in Chhattisgarh, India. Updated Version. [pankajoudhia.com](http://pankajoudhia.com)**

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**Traditional medicinal knowledge about White Fly *Aleuroclava hiptae* feeding on Madhavilata [*Hiptage benghalensis* (L.) Kurz] in Chhattisgarh, India. Updated Version.**



**Pankaj Oudhia**

## **Introduction**

**Entomophagy and Entomotherapy are well known in Asia since generations. Unfortunately not much work has been done to document valuable Traditional Medicinal Knowledge about Insects. Pankaj Oudhia is documenting this knowledge since year 1990. The present note “Traditional medicinal knowledge about White Fly *Aleuroclava hiptae* feeding on Madhavalata [*Hiptage benghalensis* (L.) Kurz] in Chhattisgarh, India.” is updated version of his previously published online research document available through [pankajoudhia.com](http://pankajoudhia.com).**

**Keywords: Entomophagy; Entomotherapy; Medicinal Insects; Ayurveda; Chhattisgarh;**

Madhavalata (*Hiptage benghalensis* syn. *H. madablota*; *Banisteria benghalensis*) is an evergreen climbing shrub, native to India and Malaysia. It is grown in gardens for its white and yellow fragrant flowers. Among the traditional healers of Chhattisgarh, Madhavalata is known for its valuable medicinal properties and uses. Its all parts are used as medicine. The natural forests of Chhattisgarh are rich in Madhavalata. It is also planted as ornamental herb in home gardens. The infestation of white Fly is common in Chhattisgarh. During the Ethno-entomological conducted in different parts of Chhattisgarh in recent past, I have observed that many senior natives and traditional healers of Chhattisgarh Plains use the full fed nymphs and adults collected from Madhavalata as medicine. The full fed nymphs and adults are used in treatment of skin related troubles through different ways. Its uses in form of ointment and special oil are most common. Many medicinal herbs are also added in ointment and special oil in order to make it more promising. These ointments and special oil are used externally. In general, the senior natives and traditional healers use it in treatment of infectious skin troubles common in rainy season. The special oil is also applied on infection between the fingers common among farm workers working in submerged paddy fields. The patients having the problem of Daad (Ringworm) are advised by the healers to use the decoction of White fly nymphs and adults during bath. Many healers recommend its internal use in form of dry powder, in treatment of liver related troubles, but as other promising alternatives are available, it is used very rarely. From documentation point of view, it is important information. The natives are traditional healers of other parts of Chhattisgarh are not aware of these medicinal uses. The traditional healers of Chhattisgarh Plains do not adopt any special method or precautions during the collection of insects.

In reference literatures, *Aleuroclava hiptae* feeding on *Hiptage benghalensis* is not described as medicinal insect. The present research article is the first written document on this important aspect.

#### **New Comments added on May, 2014**

*Through recent surveys I have collected information about over 3500 Formulations in which Aleuroclava hiptae is added as important ingredient. These Formulations are used for Kidney diseases. In Chlorophytum based Formulations it is added as secondary ingredient. In Curculigo and Berberis based Formulations it is added as tertiary ingredient. The Traditional Healers use it in Formulations after purification. Aleuroclava hiptae is dipped in cow urine at first and then cow milk and at last in herbal solution. In general the information about this purification process is kept secret. In Lawsonia based Formulations it is added as quaternary ingredient along with Curcuma caesia. In Aloe based Formulations it is added with Entada and Typha as senary ingredient. In Dioscorea based Formulations it is added with MedicinalOrchids and Ventilago as quinary ingredient. In treatment of Chronic Kidney Failure the Traditional Healers use Phyllodium based Formulations. In these Formulations Aleuroclava hiptae is added with Grewia and Woodfordia as septenary ingredient. In Buchanania based Formulations for the same disease the Healers of Gandhamardan Hills use Strychnos potatorum and Aleuroclava hiptae as octonary ingredient. In Phyllanthus based Formulations it is added as nonary and denary ingredient. For information on complete Formulations and dosage please visit [pankajoudhia.com](http://pankajoudhia.com)*

Thank you very much for reading the article.

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## Citation

**Oudhia, Pankaj (2014). Traditional medicinal knowledge about White Fly *Aleuroclava hiptae* feeding on Madhavilata [*Hiptage benghalensis* (L.) Kurz] in Chhattisgarh, India. Updated Version. [pankajoudhia.com](http://pankajoudhia.com)**

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**Traditional medicinal knowledge about Pepper White Fly *Aleurocanthus piperis* (Maskell, 1896) feeding on Kali Mirch (*Piper nigrum* L.) in Chhattisgarh, India. Updated Version.**

**Pankaj Oudhia**

**Introduction**

**Entomophagy and Entomotherapy are well known in Asia since generations. Unfortunately not much work has been done to document valuable Traditional Medicinal Knowledge about Insects. Pankaj Oudhia is documenting this knowledge since year 1990. The present note “Traditional medicinal knowledge about Pepper White Fly *Aleurocanthus piperis* (Maskell, 1896) feeding on Kali Mirch (*Piper nigrum* L.) in Chhattisgarh, India.” is updated version of his previously published online research document available through [pankajoudhia.com](http://pankajoudhia.com).**

**Keywords: Entomophagy; Entomotherapy; Medicinal Insects; Ayurveda; Chhattisgarh;**

According to the reference literatures, Kali Mirch is a native to Indo-Malaysian region. It is under cultivation in many parts of India. It is under cultivation for its fruits which are used as spice and condiment. It is also used in medicines as stimulant, carminative and stomachic. Since generations, the natives are using Kali Mirch as home remedy, beside spice and condiment. The traditional healers of the state have in depth traditional medicinal knowledge about this herb. Pepper White fly is a common pest of Kali Mirch in Chhattisgarh. During the Ethno-entomological surveys conducted in different parts of Chhattisgarh, I have observed that the traditional healers of Southern Chhattisgarh use the nymphs and adults of Pepper White Fly as medicine. The full fed nymphs and adults are used in combination with medicinal herbs. According to the traditional healers the full fed nymphs used in powder form, are a boon for the patients suffering from intermittent fever. Popularly, the combination of Kalmegh (*Andrographis paniculata*) leaf powder and insect powder is given internally many times a day as medicine. In complicated case, the combination is given in form of decoction. The insect powder and leaf powder are mixed in 1:10 ratio. The traditional healers explained that the dose of insect powder may vary from patient to patient. In many cases the smaller dose gives good results and vice-versa. The traditional healers of Keshkal region use the insect powder externally in treatment of skin related troubles but as other promising alternatives are available it is used less commonly. From documentation point of view it is important information. In general, the traditional healers do not disclose the information regarding the addition of insect powder in any combination. The healers aware of on-going documentation work shared this secret knowledge with me. The traditional healers of other parts of Chhattisgarh are not aware of these uses.

In reference literatures, Pepper White fly is not mentioned as medicinal insect. The important information regarding its traditional medicinal uses is coming for the first time among the world community through the present research article.

#### **New Comments added on May, 2014**

*Through recent surveys I have collected information about over 7000 Formulations in which Aleurocanthus piperis is added as important ingredient. Most of these Formulations are used for treatment of different types of fever. In Ocimum based Formulations it is added as quinary ingredient. The Traditional Healers of Bastar add it as secret ingredient whereas the Healers of Odisha disclose the information about it. The Healers of Jharkhand also add it in Ocimum based Formulations. The Healers perform purification ritual before adding it in the Formulations. I have documented information about 15 methods of purification performed separately for different Formulations. In Gloriosa based Formulations it is added as senary ingredient. Medicinal Orchids and wild Mushrooms are also added in these Formulations. These Formulations are popular among the Healers and they claim that without Aleurocanthus piperis most of these Formulations are of very less use. In Gymnema based Formulations it is added as septenary ingredient. In Cucumis based Formulations it is added as octonary ingredient. In Cleistanthus based Formulations it is used with Careya. These Formulations are used with much care due to the toxicity of the ingredients. In these Formulations Aleurocanthus piperis is added as tertiary and nonary ingredient. All ingredients including Aleurocanthus piperis are purified before use. The Healers of Andhra Pradesh add it in Shorea and Aconitum based Formulations as denary ingredient. These Formulations are used for old fevers. In Costus based Formulations it is added as secondary ingredient. For complete information on Formulations and dosage please visit [pankajoudhia.com](http://pankajoudhia.com)*

Thank you very much for reading the article.

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## Citation

**Oudhia, Pankaj (2014). Traditional medicinal knowledge about Pepper White Fly *Aleurocanthus piperis* (Maskell, 1896) feeding on Kali Mirch (*Piper nigrum* L.) in Chhattisgarh, India. Updated Version. [pankajoudhia.com](http://pankajoudhia.com)**

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**Traditional medicinal knowledge about Mealy bug *Pseudococcus crotonis* Gr. feeding on Anar (*Punica granatum*) in Chhattisgarh, India. Updated Version.**

**Pankaj Oudhia**

## Introduction

Entomophagy and Entomotherapy are well known in Asia since generations. Unfortunately not much work has been done to document valuable Traditional Medicinal Knowledge about Insects. Pankaj Oudhia is documenting this knowledge since year 1990. The present note "Traditional medicinal knowledge about Mealy bug *Pseudococcus crotonis* Gr. feeding on Anar (*Punica granatum*) in Chhattisgarh, India." is updated version of his previously published online research document available through [pankajoudhia.com](http://pankajoudhia.com).

**Keywords: Entomophagy; Entomotherapy; Medicinal Insects; Ayurveda; Chhattisgarh;**

Anar is well known fruit tree in Chhattisgarh. According to the reference literatures, it is a shrub or small tree, native to Iran. Its bark and fruit shells are used for tanning. Anar holds a reputed position as medicinal herb in reference literatures related to different systems of medicine, in India. Its all parts are used as medicine. The natives and traditional healers of Chhattisgarh have rich traditional medicinal knowledge about this herb. The Mealy bug *Pseudococcuss crotonis* occurs in large numbers covering the fruits and its stalks. During the Ethno-entomological surveys conducted in different parts of Chhattisgarh, I have noted that the traditional healers use this Mealy bug as medicinal insect. Alone or in combination with medicinal herbs, the bugs are added in popular combinations used to flush out the intestinal worms. In Chhattisgarh, Baibirang (*Embelia ribes*) is used as promising medicinal herb in treatment of Intestinal worms. The traditional healers of Keshkal region informed that Baibirang possess some harmful properties. This is the reason it is always given with other herbs in order to nullify the harmful effect. According to them, the Mealy bug feeding on Anar fruits possess this great property. The bugs are used alone rarely. The full fed bugs are collected and after shade drying converted into powder. This powder is used as medicine. The healers are not in favour of its long term storage. As this insect infests the Anar fruits commonly, the healers get the bugs easily. The traditional healers of Gandai-Salewara informed that in early days the bugs were in use in treatment of dysentery and diarrhea, but this use is not popular these days. The healers have no reason for it. They are not much aware of other medicinal uses of this Mealy bug.

In reference literatures, *Pseudococcuss crotonis* is not mentioned as medicinal insect. Through the on-going Ethno-entomological surveys in different parts of Chhattisgarh, I am trying my best to gather more information on this important insect.

#### **New Comments added on May. 2014**

*Through recent surveys I have collected information about over 5000 Formulations in which Pseudococcuss crotonis is added as important ingredient. These Formulations are used in treatment of different diseases both internally as well as externally. In Dillenia based Formulations it is added as quinary ingredient. These Formulations are used for treatment of liver diseases. In Sida based Formulations it is added as quinary and secondary ingredient. These Formulations are used in treatment of old wounds. In Astercantha based Formulations of Bastar it is added as quinary ingredient with Achyranthes. In Trombidium based Formulations of Gandhamardan Hills it is added as quinary ingredient with Cynodon. In Shorea based Formulations of Jharkhand it is added as quinary ingredient with Vanda and other Medicinal Orchids. In Polyalthia based Formulations it is added as quaternary ingredient. These Formulations are used in treatment of old cases of Malaria. In Cordia and Grewia based Formulations it is added as senary ingredient. These Formulations are used in treatment of Heart*

*Diseases. In Emilia based Formulations it is added as septenary ingredient. These Formulations are used for treatment of internal bleeding. In Eclipta and Echinops based Formulations it is added as octonary ingredient. These Formulations are used in treatment of urinary diseases. In Cotula and Conyza based Formulations it is added as denary ingredient. These Formulations are used for treatment of joint related diseases. For complete information on Formulations and dosage please visit [pankajoudhia.com](http://pankajoudhia.com)*

Thank you very much for reading the article.

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**Traditional medicinal knowledge about White Fly *Aleurolobus* sp. feeding on Ban Nimbu [*Glycosmis pentaphylla* (Retz.) DC.] in Chhattisgarh, India. Updated Version.**

**Pankaj Oudhia**

## Introduction

**Entomophagy and Entomotherapy are well known in Asia since generations. Unfortunately not much work has been done to document valuable Traditional Medicinal Knowledge about Insects. Pankaj Oudhia is documenting this knowledge since year 1990. The present note “Traditional medicinal knowledge about White Fly *Aleurolobus* sp. feeding on Ban Nimbu (*Glycosmis pentaphylla*) in Chhattisgarh, India.” is updated version of his previously published online research document available through [pankajoudhia.com](http://pankajoudhia.com).**

**Keywords: Entomophagy; Entomotherapy; Medicinal Insects; Ayurveda; Chhattisgarh;**

According to the reference literatures, Ban Nimbu is a shrub distributed throughout the India and sometimes cultivated in gardens. Its fruits are edible and juice extracted from leaves is used in indigenous medicine for fever, liver complaints and as vermifuge. Ban Nimbu is well known herb in Chhattisgarh. The traditional healers have rich traditional medicinal knowledge about this herb. Many insects infest Ban Nimbu in Chhattisgarh. The White Fly *Aleurolobus* is one of these insects. During the Ethno-entomological surveys conducted in different parts of Chhattisgarh in recent past, I have noted that the traditional healers specialized in treatment of Jaundice (Pelea) use the full fed nymphs and adults as medicine. The traditional healers of Ambikapur region informed that they use Bhuiaonla (*Phyllanthus niruri*) in treatment of Jaundice, but in many

cases the use of Bhuiaonla results in harmful effects. In such cases they add full fed nymphs and adults in dry powder form, with Bhuiaonla. The traditional healers of Chhattisgarh Plains are also agree with its effects. The insect powder is also used alone as medicine but it is given in small doses and upto very long time. In general, it is given in combination with Shahad (Honey). The traditional healers of Kanker region prepare special oil by boiling the freshly collected nymphs in base oil. As base oil Sarson (Mustard seed) oil is used. This special oil is used externally in treatment of skin related troubles, but as other promising alternatives are available it is used less commonly. During the survey, I got the opportunity to interact with the natives using this special oil. Their encouraging responses motivated me to document this important traditional knowledge without any delay. The traditional healers are not aware of its other traditional medicinal uses.

In reference literatures, this insect is not mentioned as medicinal insect. The present article is the first written document on this important aspect. Through the on-going Ethno-entomological surveys I am trying my best to gather more information on the other traditional medicinal uses of this insect.

#### **New Comments added on May 2014**

*Through recent surveys I have collected information about over 3000 Formulations in which Aleurolobus collected from Glycosmis is added as important ingredient. Most of these Formulations are used in treatment of Liver diseases. In Cichorium based Formulations it is added as octonary ingredient with Cocos. In Chromolaena based Formulations it is added as septenary ingredient. In Triticum and Paspalum based Formulations it is added as quinary ingredient. Many Healers add it as septenary ingredient also in these Formulations. In Tragus, Commelina and Themeda based Formulations it is added as quaternary ingredient. These Formulations are popular among the Traditional Healers. In Setaria, Sporolobus and Panicum based Formulations it is added as tertiary ingredient. These Formulations are used in complicated cases. In Carex, Lemna and Vanda based Formulations it is added as senary ingredient. The Healers use these Formulations with much care. Patients with skin allergies are not given these Formulations. In Pothos, Tacca and Pistia based Formulations it is used as octonary ingredient. In Acorus, Pandanus and Agave based Formulations it is added as nonary ingredient. In Borassus, Smilax and Rubus based Formulations it is added as denary ingredient. For information on complete Formulations and dosage please visit [pankajoudhia.com](http://pankajoudhia.com)*

Thank you very much for reading the article.

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**Traditional medicinal knowledge about Tamarind white fly *Aleuroplatus sp.* feeding on Amli (*Tamarindus indica* L.) in Chhattisgarh, India. Updated Version.**

**Pankaj Oudhia**

## Introduction

**Entomophagy and Entomotherapy are well known in Asia since generations. Unfortunately not much work has been done to document valuable Traditional Medicinal Knowledge about Insects. Pankaj Oudhia is documenting this knowledge since year 1990. The present note “Traditional medicinal knowledge about Tamarind white fly *Aleuroplatus sp.* feeding on Amli (*Tamarindus indica* L.) in Chhattisgarh, India.” is updated version of his previously published online research document available through [pankajoudhia.com](http://pankajoudhia.com).**

**Keywords: Entomophagy; Entomotherapy; Medicinal Insects; Ayurveda; Chhattisgarh;**

According to the reference literatures, Amli is a tree indigenous to tropical Africa but now found throughout India. It is also grown as avenue tree. Its fruit pulp is used for souring curries, sauces, Chutneys and certain beverages. Unripe fruits are rich source of tartaric acid and by products like ethanol, lactic acid and citric acid. Tartaric acid and its salts are extensively used in various foods, chemical and pharmaceutical industries. In Chhattisgarh the dense forests are rich in

natural popular of Amli. Its all parts are used as medicine. Every year the state authorities generate a huge income from different plant parts of Amli. The natives and traditional healers have in depth traditional medicinal knowledge about Amli. The infestation of Tamarind white fly is common in Amli rich regions of Chhattisgarh, I have observed that the traditional healers of different parts of Chhattisgarh use the full fed nymphs and adults, as medicine for different purpose. In general, the insect powder is used both internally as well as externally in treatment of skin related troubles. In normal cases of Daad (Ringworm), the insect powder is applied on affected parts in form of aqueous paste whereas in complicated cases the insect powder is used with cow urine in same manner. In combination with medicinal herbs the insect powder is also taken internally as medicine. It is considered as blood purifier. According to the traditional healers, the insect powder plays an important role in herbal combinations. It also reduces and eliminates extra body heat, the healers informed. The traditional healers of Chhattisgarh plains boil the freshly collected full fed nymphs in Til (Sesame seed) oil and when all watery contents evaporate the boiling is stopped and special oil is stored for future use. This special oil is used externally in treatment of ear related troubles. I have observed during the surveys that many herb vendors sell this special oil to the interested natives and healers without disclosing its contents. The traditional healers are not much aware of other medicinal uses of Tamarind white fly.

In reference literatures, Tamarind white fly is not mentioned as medicinal insect. The present research article is the first written document on this important aspect.

#### **New Comments added on May, 2014**

*Through recent surveys I have collected information about over 2000 Formulations in which Aleuroplatus collected from Tamarind is added as important ingredient. These Formulations are used in treatment of blood related diseases. In Eleusine, Panicum and Eriochloa based Formulations it is added as tertiary ingredient. In Blumea, Tridax and Echinops based Formulations it is added as quaternary ingredient. In Chlorophytum, Careya, Cleistanthus based Formulations for Blood Cancer it is added as quinary ingredient. The Traditional Healers use these Formulations very carefully. In Apluda, Scirpus and Ficus based Formulations it is added as senary ingredient. In Sabal, Caryota and Tephrosia based Formulations it is added septenary ingredient with Vanda and Habenaria. In Iphigenia, Asparagus and Gloriosa based Formulations of Gandhamardan Hills it is added as octonary ingredient. These Formulations are popular among the Healers. In Tacca, Curculigo and Lilium based Formulations it is added as nonary ingredient with Amaranthus and Cynodon. In Liparis, Eulophia and Cuscuta based Formulations it is added as denary ingredient.*

*For Jatropha toxicity the Traditional Healers use Tectona based Formulations. In these Formulations it is added as secondary ingredient. In case of Tridax Overdose the Healers use*

*Rosa based Formulations. In these Formulations Aleuroplatus is added as nonary ingredient. For details about complete Formulations and dosage please visit [pankajoudhia.com](http://pankajoudhia.com)*

Thank you very much for reading the article.

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## Citation

**Oudhia, Pankaj (2014). Traditional medicinal knowledge about Tamarind white fly *Aleuroplatus sp.* feeding on Amli (*Tamarindus indica* L.) in Chhattisgarh, India. Updated Version. [pankajoudhia.com](http://pankajoudhia.com)**

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**Traditional medicinal knowledge about *Bemisia tabaci* (Gennadius) feeding on Lemon grass [*Cymbopogon flexuosus* (Nees ex Steud.) W.Watson] in Chhattisgarh, India. Updated Version.**

**Pankaj Oudhia**

## **Introduction**

**Entomophagy and Entomotherapy are well known in Asia since generations. Unfortunately not much work has been done to document valuable Traditional Medicinal Knowledge about Insects. Pankaj Oudhia is documenting this knowledge since year 1990. The present note “Traditional medicinal knowledge about *Bemisia tabaci* (Gennadius) feeding on Lemon grass [*Cymbopogon flexuosus* (Nees ex Steud.) W.Watson] in Chhattisgarh, India.” is updated version of his previously published online research document available through [pankajoudhia.com](http://pankajoudhia.com).**

**Keywords: Entomophagy; Entomotherapy; Medicinal Insects; Ayurveda; Chhattisgarh;**

According to the reference literatures, Lemon grass is a perennial aromatic grass. It yields East-Indian Lemon grass oil. The oil, obtained from the leaves, is used in perfumery and cosmetics. Lemon-grass oil is basic raw material for manufacture of many aromatic chemicals which find application in soap, perfumery and cosmetic industries. The oil is also used in many pharmaceutical preparations, such as pain balm and disinfectants. Lemon grass is under cultivation as aromatic crop in Chhattisgarh. It is also present in wild. Although it is said to be introduced in recent past but the traditional healers are aware of its medicinal properties and uses. *Bemisia tabaci* is a common pest of Lemon grass in cultivated fields. In the year 1996 when I presented some Lemon grass plants with this insect to the traditional healers of Chhattisgarh specialized in use of medicinal insect, they assured me to conduct a systematic research to search the medicinal potential of this insect. Through the recently conducted ethno-entomological surveys I got opportunity to collect the results of their initial trials. The traditional healers of Narharpur region have found the insect useful in treatment of nervous system disorders. They are using it in long term treatment of Mirgi (Epilepsy) along with medicinal herbs. The traditional healers of Bhopalpatnam region have found the insect very useful in treatment of bronchitis. They are using it internally, in small doses, with medicinal herbs. Most of the healers do not consider the insect safe for its use as single remedy. According to them there is a need for addition of medicinal herbs in each formulation in order to nullify the harmful effects of insects. Many times Lemon grass leaves are used for this purpose. The traditional healers of Bagbahera region informed that the harmful effects of Lemon grass can be eliminated with the help of insect and vice-versa. As their trials are in good progress, I am expecting that very soon, we will have the long list of medicinal uses with us. Through the on-going Ethno-entomological surveys, I am trying my best to meet the traditional healers living in areas where Lemon grass grows as wild population. I am confident that through interactions with them I will be able to gather more information as well as the scientific explanation regarding its effects.

In reference literatures, *Bemisia tabaci* feeding on Lemon grass is not mentioned as medicinal insect. *Bemisia tabaci* feeding on different hosts are used as medicinal insect in treatment of other troubles, by the traditional healers of Chhattisgarh. You will find the details in coming articles.

#### **New Comments added on May 2014**

*Through recent surveys I have collected information about 3000 Formulations in which Bemisia tabaci feeding on Lemon grass is added as important ingredient. These Formulations are used for treatment of diseases of nervous system. In Stellaria and Spergula based Formulations it is added as Quinary ingredient along with Shorea and Ficus religiosa. In Silene and Saponaria based Formulations it is added as quaternary ingredient by the Traditional Healers of Bastar whereas the Healers of Odisha use it as quinary ingredient in these Formulations. In Drymaria, Polygala and Xanthium based Formulations it is added as tertiary ingredient. These Formulations are popular among the Traditional Healers but they add Bemisia tabaci as secret ingredient and claim that without it Formulations are considered incomplete. In Flacourtia and Casearia based Formulations it is added as senary ingredient with Woodfordia. In Hybanthus, Bixa and Viola based Formulations it is added as septenary ingredient. In Cleome and Capparis based Formulations used at early stages of diseases it is added as octonary ingredient. In Crateva and Maerua based Formulations it is added as nonary ingredient. In Fumaria and Argemone based Formulations it is added as denary ingredient. These Formulations are popular among the Traditional Healers of Chhattisgarh. For details on complete Formulations and dosage please visit [pankajoudhia.com](http://pankajoudhia.com)*

Thank you very much for reading the article.

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## Citation

**Oudhia, Pankaj (2014). Traditional medicinal knowledge about *Bemisia tabaci* (Gennadius) feeding on Lemon grass [*Cymbopogon flexuosus* (Nees ex Steud.) W.Watson] in Chhattisgarh, India. Updated Version. [pankajoudhia.com](http://pankajoudhia.com)**

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**Traditional medicinal knowledge about *Helicoverpa armigera* (Hübner, 1805) feeding on *Crotalaria sp.* in Chhattisgarh, India. Updated Version.**

**Pankaj Oudhia**

## Introduction

**Entomophagy and Entomotherapy are well known in Asia since generations. Unfortunately not much work has been done to document valuable Traditional Medicinal Knowledge about Insects. Pankaj Oudhia is documenting this knowledge since year 1990. The present note “Traditional medicinal knowledge about *Helicoverpa armigera* (Hübner, 1805) feeding**

on *Crotalaria sp.* in Chhattisgarh, India.” is updated version of his previously published online research document available through [pankajoudhia.com](http://pankajoudhia.com).

**Keywords:** Entomophagy; Entomotherapy; Medicinal Insects; Ayurveda; Chhattisgarh;

Many species of *Crotalaria* grows as wild plants in Chhattisgarh. *Crotalaria juncea*, commonly known as Sun or San, is under cultivation. Gram caterpillar *Helicoverpa armigera* is well known polyphagous insect that feeds on many agricultural crops as well as woody species. I have mentioned in previous articles that the natives and traditional healers have in depth traditional medicinal knowledge about different uses of *Helicoverpa armigera*. They use the *Helicoverpa* caterpillars feeding on different plants for different purposes. According to them, the host plants play an important role in making the caterpillars medicinally rich. During the Ethno-entomological surveys conducted in different parts of Chhattisgarh, I have observed that the traditional healers of Kanker region use *Helicoverpa* caterpillar feeding on *Crotalaria burhia* and *C. juncea* plants as medicine. The full fed caterpillars are used both internally as well as externally, in treatment of many common troubles. Before using the caterpillars to prepare the medicine, the traditional healers dip it in aqueous extract of Neem leaves for ten minutes and after this time period, dry it in shade. After drying the caterpillars are converted into powder. This powder is kept for future use. The traditional healers add this powder in popular herbal combinations used as blood purifier. According to the healers, the caterpillar powder plays very important role in enriching the herbal combinations. In treatment of pain, the healers use the powder in combination with Kanhar (Black) soil. The powder is mixed with soil and with the help of water an aqueous paste is prepared. This paste is applied externally on painful parts. I have seen its practical uses in treatment of Migraine (Headache). The healers suggest the patients having skin related troubles to smear the aqueous paste all over the body before bath and wash it after drying. The paste is having the capacity to absorb the extra heat from the body. The healers are not aware of its other uses. When I asked the traditional healers of other regions specialized in use of medicinal insects about these uses, they showed ignorance to it but assured me to try it in near future. Later when the healers tried the caterpillars, they found it equally effective, as claimed by the healers of Kanker region.

The medicinal uses of *Helicoverpa* feeding on *Crotalaria* species have yet not been reported in reference literatures. I am feeling proud to document this information.

**New Comments added on May, 2014**

*Through recent surveys I have collected information about over 7500 Formulations in which Helicoverpa collected from Crotalaria is used as important ingredient. Most of these Formulations are used for treatment of bone diseases. The Traditional Healers add it as secret ingredient and rarely share information about it. In Acampe, Aerides and Vanda based Formulations Helicoverpa is added as secondary ingredient. The Healers prepare these Formulations during winter season and use it round the year. In Ficus, Shorea and Xanthium based Formulations it is added as tertiary ingredient. In Arundina and Bulbophyllum based Formulations used for treatment on early stages of bone cancer it is added as quaternary ingredient. In Calanthe and Chrysoglossum based Formulations it is added as senary ingredient with Medicinal Sedges mainly Cyperus. In Coelogyne and Cottonia based Formulations of Bastar it is added as quinary ingredient with 7 wild mushroom species. These Formulations are used when all available cancer remedies fail to give the desirable effects. The Healers claim that without Helicoverpa these Formulations are useless. In Crepidium and Cymbidium based Formulations it is added as septenary and octonary ingredient. These Formulations are popular among the Traditional Healers of Odisha and Jharkhand. In Didymoplexis and Dendrobium based Formulations it is added as nonary ingredient with medicinal mite Trombidium. For complete information on Formulations and dosage please visit [pankajoudhia.com](http://pankajoudhia.com)*

Thank you very much for reading the article.

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## Citation

**Oudhia, Pankaj (2014). Traditional medicinal knowledge about *Helicoverpa armigera* (Hübner, 1805) feeding on *Crotalaria sp.* in Chhattisgarh, India. Updated Version. [pankajoudhia.com](http://pankajoudhia.com)**

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**Traditional medicinal knowledge about *Liriomyza trifolii* Burgess (Diptera: Agromyzidae) feeding on Bakla (*Phaseolus vulgaris* L.) in Chhattisgarh, India. Updated Version.**

**Pankaj Oudhia**

## Introduction

Entomophagy and Entomotherapy are well known in Asia since generations. Unfortunately not much work has been done to document valuable Traditional Medicinal Knowledge about Insects. Pankaj Oudhia is documenting this knowledge since year 1990. The present note “Traditional medicinal knowledge about *Liriomyza trifolii* Burgess (Diptera: Agromyzidae) feeding on Bakla (*Phaseolus vulgaris* L.) in Chhattisgarh, India.” is updated version of his previously published online research document available through [pankajoudhia.com](http://pankajoudhia.com).

**Keywords: Entomophagy; Entomotherapy; Medicinal Insects; Ayurveda; Chhattisgarh;**

Bakla is well known vegetable crop in India. Its tender pods and dry ripe seeds are used as vegetable. In Chhattisgarh it is under cultivation particularly in Chhattisgarh Plains. It is also planted in home gardens for same purpose. The leaf miner *Liriomyza trifolii* is a common pest of Bakla. During the Ethno-entomological surveys conducted in different parts of Chhattisgarh, in recent past, I have observed that many traditional healers of Chhattisgarh Plains are using the full fed larva as medicine. The healers are adopting special precaution during the collection of larva. The collection from commercial fields is avoided. The Bakla herbs grown organically are preferred for the collection of larva. The larva is used in form of powder. In general, the healers collect the larva in bulk and store it for long term use. During storage it is protected from moisture. The traditional healers add the larva powder in popular herbal combinations used in treatment of constipation. According to the traditional healers, the larva powder plays an important role in these herbal combinations. Alone larva powder is not used for this purpose. The traditional healers also use larva powder externally. In combination with Kanhar (Black cotton soil), the healers prepare an aqueous paste. This paste is used for face care. According to the healers, its regular application twice a day helps in removing black spots. This use is very popular among them. The traditional healers are not aware of its other traditional medicinal uses. During the surveys, I have observed that very few healers are present with us, using this insect as medicine in their routine practice. This observation motivated me to document the important information regarding traditional medicinal uses of this insect without any delay.

In reference literatures, *Liriomyza trifolii* feeding on Bakla is not reported as medicinal insect. As Bakla is under cultivation in many parts of the world, I am confident that the information regarding this insect will be of great use for the researchers around the world.

#### **New Comments added on June, 2014**

*Through recent surveys I have collected information about over 4500 Formulations in which Liriomyza collected from Phaseolus is added as important ingredient. In Poa and Phragmites based Formulations it is added as denary ingredient. These Formulations are used in treatment of Liver diseases. In Mimosa and Tephrosia based Formulations it is added as nonary ingredient. These Formulations are used for Kidney diseases specially at early stage. In Miscanthus, Triticum and Melica based Formulations for Bone diseases it is added as octonary ingredient. In Ocimum, Litsea and Celosia based Formulations it is added as septenary ingredient. These Formulations are used for advanced stages of Kidney diseases. These Formulations are popular among the Traditional Healers. Many of them adopt special purification methods before adding Liriomyza in the Formulations. In general it is added as secret ingredient. In Leptochloa and Leersia based Formulations it is added as senary ingredient with Lolium. These Formulations are used for the joint diseases. In Ruppia and Najas based*

*Formulations for Liver Cancer it is added as quinary ingredient. These Formulations are popular among the Healers of Chhattisgarh and Odisha. In Areca, Benincasa and Cyanotis based Formulations it is added as tertiary ingredient. These Formulations are used for blood related diseases. The Traditional Healers of Chhattisgarh having expertise in treatment of Sickle Cell Anemia are well aware of these Formulations. For complete information on Formulations and dosage please visit [pankajoudhia.com](http://pankajoudhia.com)*

Thank you very much for reading the article.

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## Citation

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**Traditional medicinal knowledge about Coffee Green Bug *Coccus viridis* Gr. (Hemiptera: Coccidae) feeding on Mahkua (*Ageratum conyzoides* L.) in Chhattisgarh, India. Updated Version.**

**Pankaj Oudhia**

## Introduction

Entomophagy and Entomotherapy are well known in Asia since generations. Unfortunately not much work has been done to document valuable Traditional Medicinal Knowledge about Insects. Pankaj Oudhia is documenting this knowledge since year 1990. The present note “Traditional medicinal knowledge about Coffee Green Bug *Coccus viridis* Gr. (Hemiptera: Coccidae) feeding on Mahkua (*Ageratum conyzoides* L.) in Chhattisgarh, India.” is updated version of his previously published online research document available through [pankajoudhia.com](http://pankajoudhia.com).

**Keywords: Entomophagy; Entomotherapy; Medicinal Insects; Ayurveda; Chhattisgarh;**

Mahakua (*Ageratum conyzoides*) grows as wasteland weed in Chhattisgarh. The farmers have kept this herb in the category of medicinal weeds. The natives and traditional healers are also aware of its medicinal properties and uses. I have mentioned in previous article that the insects feeding on Ageratum are considered as medicinal insect and used in treatment of many common diseases. Coffee Green Bug uses Ageratum as alternate host. During the Ethno-entomological surveys conducted in different parts of Chhattisgarh, in recent past, I have observed that the

traditional healers of Northern Chhattisgarh use this insect as medicinal insect. The full fed bugs are used both internally as well as externally. Ageratum leaves are considered as promising styptic. When the traditional healers get injuries during visit to forest, they simply rub the crushed leaves on injured parts. It stops the bleeding effectively. The leaves with bugs are considered more promising. The healers use the leaves with bug in form of decoction to wash the old wounds. Bugs are also used alone. Many traditional healers add the bugs in dry powder form in popular herbal combinations used in treatment of fevers. But as other promising alternatives are available, it is used less commonly. The traditional healers specialized in treatment of Mirgi (Epilepsy) use the bugs externally. The dry bugs are burned and fumes are directed towards the patients. It is considered as one of the promising treatment during attack. The bugs are also used with leaves in same way. The traditional healers are not aware of its other medicinal uses. These traditional uses are limited to Northern parts of Chhattisgarh only. The healers of other regions are not much aware of these uses.

In reference literatures, Coffee Green bug is not mentioned as medicinal insect. This research article is the first written document on this important aspect.

#### **New Comments added on June, 2014**

*Through recent surveys I have collected information about over 5000 Formulations in which Coccus viridis collected from Ageratum is used as important ingredient. Most of these Formulations are used in treatment of diseases of nervous system. In Anacardium, Semecarpus and Moringa based Formulations it is added as tertiary ingredient. These Formulations are used in treatment of Epilepsy and very popular among the Traditional Healers. Coccus viridis is added as secret ingredient. In Rhus, Lannea and Mangifera based Formulations it is added as quaternary ingredient. These Formulations are used at early stages of diseases. In Aeschynomene, Butea, Habenaria and Solanum based Formulations it is added as quinary ingredient. In Cajanus, Cicer and Clitoria based Formulations for patients with poor vitality Coccus viridis is added as senary ingredient. In Dumasia, Pueraria, Erythrina and Flemingia based Formulations it is added as septenary ingredient. These Formulations are used in early stages of Epilepsy. In Indigofera, Lathyrus and Dolichos based Formulations it is added as Octonary ingredient. In Mucuna, Psoralea and Pongamia based Formulations it is added as nonary ingredient. In Medicinal Rice Tenduphool based Formulations it is added as denary ingredient. For information on complete Formulations and dosage please visit [pankajoudhia.com](http://pankajoudhia.com)*

Thank you very much for reading the article.

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## Citation

**Oudhia, Pankaj (2014). Traditional medicinal knowledge about Coffee Green Bug *Coccus viridis* Gr. (Hemiptera: Coccidae) feeding on Mahkua (*Ageratum conyzoides* L.) in Chhattisgarh, India. Updated Version. [pankajoudhia.com](http://pankajoudhia.com)**

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**Traditional medicinal knowledge about *Glyphodes glauculalis* (Guenée, 1854) [Lepidoptera: Pyralidae] feeding on Chandni [*Tabernaemontana divaricata* (L.) R.Br. ex Roem. & Schult.] in Chhattisgarh, India. Updated Version.**

**Pankaj Oudhia**

## Introduction

Entomophagy and Entomotherapy are well known in Asia since generations. Unfortunately not much work has been done to document valuable Traditional Medicinal Knowledge about Insects. Pankaj Oudhia is documenting this knowledge since year 1990. The present note “Traditional medicinal knowledge about *Glyphodes glauculalis* (Guenée, 1854) [Lepidoptera: Pyralidae] feeding on Chandni [*Tabernaemontana divaricata* (L.) R.Br. ex Roem. & Schult.] in Chhattisgarh, India.” is updated version of his previously published online research document available through [pankajoudhia.com](http://pankajoudhia.com).

**Keywords: Entomophagy; Entomotherapy; Medicinal Insects; Ayurveda; Chhattisgarh;**

Chandni (*Tabernaemontana divaricata*) is a well known ornamental shrub. The red pulp around its seeds is used as dye. The flowers are made into garlands and offered in worship. The women use garlands as hair ornaments. In Chhattisgarh, Chandni is planted in home gardens. Since generations, the natives and traditional healers are aware of its medicinal properties and uses. It is a popular folk medicine. *Glyphodes glauculalis* is a common pest of Chandni not only in Chhattisgarh but also on other parts of India. The greenish caterpillar of this light blue moth is a leaf folder. The plants are totally defoliated at times by this pest. During the Ethno-entomological surveys conducted in different parts of Chhattisgarh, in recent past, I have observed that the traditional healers of many parts use the full fed caterpillars as medicine. The caterpillars are used both internally as well as externally. The healers of Chhattisgarh Plains use

it internally in powder form in treatment of pain. The full fed caterpillars are collected and after shade drying converted into powder. In treatment of headache particularly Adhasisi (Migraine), the healers give the caterpillar powder internally in combination with cow ghee to the patients. This use is popular among them. Its popularity clearly indicates its efficacy. The traditional healers of Southern Chhattisgarh use the caterpillar powder externally in treatment of painful swelling. In general, it is used in combination with medicinal herbs. The traditional healers of Gandai-Salewara region informed that the adult of this caterpillar can be used in treatment of Safed Dag (Leucoderma). The adults are crushed and in combination with cow urine and aqueous paste is prepared. This paste is applied externally on affected parts. As other promising herbal alternatives are available, it is used less commonly. The male insects are preferred. Although the traditional healers are unaware of this specific use but I feel it is very necessary to start a systematic research on this important aspect in order to search the true explanation for the coming generations. Like the knowledge about other medicinal insects, the knowledge about this insect is not secret. This is the reason many natives are also aware of these uses. I have seen the caterpillar and adult powder with the herb vendors also. The traditional healers of Chhattisgarh are not aware of its other medicinal uses.

In reference literatures, *Glyphodes glauculalis* feeding on Chandni is not mentioned as medicinal insect. This article is the first written document on this important aspect.

#### **New Comments added on June, 2014**

*Through recent surveys I have collected information about over 6000 Formulations in which Glyphodes collected from Chandni is used as important ingredient. In Vernonia, Orobanche and Ventilago based Formulations for Liver diseases it is added as secondary ingredient. In Scoparia, Urticularia and Sporobolus based Formulations it is added as tertiary ingredient with Celosia and Terminalia. In Pedicularis, Cajanus and Semecarpus based Formulations for dropsy it is added as quaternary ingredient. In Digitalis, Bacopa and Withania based Formulations it is added as senary ingredient. These Formulations are used for treatment of blood cancer at early stages. In Nicotiana, Datura and Cestrum based Formulations for cancerous wound it is added as quinary ingredient. Wild and cultivated Curcuma species are also added in these Formulations. In Evolvulus, Convolvulus and Aloe based Formulations for Kidney diseases it is added as septenary ingredient. In Habenaria based Formulations it is added as octonary ingredient. In these Formulations Medicinal Rice Bhejri is also added. In Enicostema, Exacum and Mangifera based Formulations it is added as denary ingredient. These Formulations are used in treatment of respiratory diseases. These Formulations are popular among the Healers. For complete information on Formulations and dosage please visit [pankajoudhia.com](http://pankajoudhia.com)*

Thank you very much for reading the article.

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## Citation

**Oudhia, Pankaj (2014). Traditional medicinal knowledge about *Glyphodes glauculalis* (Guenée, 1854) [Lepidoptera: Pyralidae] feeding on Chandni [*Tabernaemonatana divaricata* (L.) R.Br. ex Roem. & Schult.] in Chhattisgarh, India. Updated Version. [pankajoudhia.com](http://pankajoudhia.com)**

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**Traditional medicinal knowledge about *Eriophyes terminaliae* Channabasavanna (Acarina: Eriophyidae) feeding on Koha (*Terminalia arjuna*) in Chhattisgarh, India. Updated Version.**

**Pankaj Oudhia**

## Introduction

Entomophagy and Entomotherapy are well known in Asia since generations. Unfortunately not much work has been done to document valuable Traditional Medicinal Knowledge about Insects and Mites. Pankaj Oudhia is documenting this knowledge since year 1990. The present note “Traditional medicinal knowledge about *Eriophyes terminaliae* Channabasavanna (Acarina: Eriophyidae) feeding on Koha (*Terminalia arjuna*) in Chhattisgarh, India.” is updated version of his previously published online research document available through [pankajoudhia.com](http://pankajoudhia.com).

**Keywords: Entomophagy; Entomotherapy; Medicinal Mites; Ayurveda; Chhattisgarh;**

According to the reference literatures, Koha (*Terminalia arjuna*) is a tree occurring throughout the greater part of India. It is also grown as avenue tree. The bark is used for dyeing and tanning and leaves are fed to tasar silkworms. Its Timber is used for agricultural implements and boat-building. The powdered bark is reported to relieve hypertension and also has diuretic and tonic effect in cirrhosis of liver. Koha is well known tree of medicinal, industrial and religious importance in Chhattisgarh. The traditional healers have rich traditional medicinal knowledge about Koha. Its all parts are used as medicine. Eriophyid mite attacks on Koha during rainy season in Chhattisgarh. During the Ethno-entomological surveys conducted in different parts of Chhattisgarh in recent past I have observed that the traditional healers of Chhattisgarh Plains use the full fed mites as medicine both internally as well as externally. The traditional healers boil the full fed mites in Til (Sesame seed) oil. When all watery contents evaporate the boiling is stopped and special oil is kept for future use. This special oil is considered as a boon for the patients having ear related troubles. Few drops of oil are able to solve many common problems. I have observed during the survey that many herb vendors sell the special oil to the traditional healers of neighbouring states, without disclosing its content. The traditional healers of Chhattisgarh are not in favour of adding medicinal herbs in this oil. Many healers use this special oil externally in treatment of wounds in different body parts. For this use they add many herbs in it. The traditional healers of Rajnandgaon region use the dried mites in combination with medicinal herbs in treatment of blood related troubles. It is considered as promising blood purifier. The traditional healers of other regions of Chhattisgarh are not much aware of these medicinal uses. The mites feeding on old Koha trees are preferred by the healers.

In reference literatures, *Eriophyes terminaliae* feeding on Koha is not mentioned as medicinal mite. These traditional medicinal uses are very popular among the traditional healers. Its popularity clearly indicates its efficacy.

#### **New Comments added on June, 2014**

*Through recent surveys I have collected information about over 2500 Formulations in which Eriophyes terminaliae is added as important ingredient. Most of these Formulations are used in treatment of Liver related diseases. In Echium, Hemidesmus and Wattakaka based Formulations it is added as denary ingredient. Eriophyes terminaliae collected from Terminalia growing without stress are used in these Formulations. In Sarcostemma and Pergularia based Formulations it is added as nonary ingredient with Tacca. In Calotropis, Echinops and Argemone based Formulations it is added as octonary ingredient. In Ceropegia and Asclepias based Formulations it is added as quinary ingredient. In Curculigo, Cassia tora and Careya based Formulations it is added as senary ingredient. These Formulations are popular among the Traditional Healers of Chhattisgarh and Odisha. The Healers of Jharkhand add it in Vinca,*

*Wrightia and Nerium based Formulations as quaternary ingredient. These Formulations are used with much care. Patients with poor vitality are not allowed to take these Formulations. In Symplocos and Costus based Formulations it is added as tertiary ingredient. For information on complete Formulations and Dosage please visit [pankajoudhia.com](http://pankajoudhia.com)*

Thank you very much for reading the article.

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## Citation

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**Traditional medicinal knowledge about *Haplothrips ramakrishnae* K. (Thysanoptera: Phloeothripidae) feeding on Guldaudi (*Chrysanthemum indicum* L.) in Chhattisgarh, India. Updated Version.**

**Pankaj Oudhia**

## Introduction

Entomophagy and Entomotherapy are well known in Asia since generations. Unfortunately not much work has been done to document valuable Traditional Medicinal Knowledge about Insects. Pankaj Oudhia is documenting this knowledge since year 1990. The present note “Traditional medicinal knowledge about *Haplothrips ramakrishnae* K. (Thysanoptera: Phloeothripidae) feeding on Guldaudi (*Chrysanthemum indicum* L.) in Chhattisgarh, India.” is updated version of his previously published online research document available through [pankajoudhia.com](http://pankajoudhia.com).

**Keywords: Entomophagy; Entomotherapy; Medicinal Insects; Ayurveda; Chhattisgarh;**

Guldaudi (*Chrysanthemum indicum*) is a native to China and Japan. It is cultivated as an ornamental in many parts of India. In Chhattisgarh, the natives plant it in home gardens. The traditional healers are not much aware of its medicinal properties and uses. Its all parts are used as folk medicine. Many insect species attack on Guldaudi. The infestation of *Haplothrips ramakrishnae* is common in Chhattisgarh Plains. It damages the flowers. The traditional healers and senior natives are aware of its medicinal uses. According to them, they are using this insect as medicine since generations. Through the Ethno-entomological surveys conducted in different parts of Chhattisgarh, in recent past, I have collected valuable information on this insect. The senior natives use the full fed insect as veterinary medicine. In form of aqueous paste it is applied on wounds to destroy the worms. During rainy season in order to protect the cattle from infectious diseases, the cattle owners wash them, with the help of herbal decoction. In the decoction, full fed insects are added in dry powder form as an important ingredient. The senior natives of Durg region use the insect powder in treatment of Foot and Mouth disease of cattle. As the information regarding these traditional medicinal uses is spreading through popular articles in

local language, now the cattle owners of other parts of Chhattisgarh have started its use. Its popularity among them clearly indicates its efficacy. The herb collectors and herb vendors of Gandai-Salewara region collect the insect and in powder form, sell it to many traditional healers of Chhattisgarh and other states where Guldaudi and Haplothrips both are not common. Through interactions with them I got valuable information. According to them, the traditional healers specialized in treatment of different types of cancer, purchase the insect powder in bulk and add it in herbal formulations. When I tried to interact with many of these healers, they confirmed the information regarding its role in promising herbal formulations but refused to disclose the formulations. I think, this initial information is enough at this stage. The traditional healers do not use any part of Guldaudi for this purpose. Through the on-going Ethno-entomological surveys I am trying my best to gather more information on this aspect. The traditional healers and senior natives are not aware of its other traditional medicinal uses.

In reference literatures, Haplothrips ramakrishnae feeding on Guldaudi is not mentioned as medicinal insect. This research article is the first written document on this important aspect.

#### **New Comments added on June, 2014**

*Through recent surveys I have collected information about over 3000 Formulations in which Haplothrips collected from Guldaudi is added as important ingredient. Many of these Formulations are used in treatment of different types of cancer. In Prunus, Psidium and Pterocarpus based Formulations it is added as quaternary ingredient. In Neptunia, Pithecellobium and Eclipta based Formulations it is added as quinary ingredient. In Albizia, Senna and Saraca based Formulations it is added as tertiary ingredient. In these Formulations Trombidium is also added. In Echinops, Solanum and Lannea based Formulations it is added as senary ingredient with Medicinal Orchids. In Zornia, Vicia and Uraria based Formulations it is added as septenary ingredient whereas in Tephrosia, Smithia and Sophora based Formulations it is added as Octonary ingredient. In Ougeinia and Diospyros based Formulations for Datura Toxicity it is added as nonary ingredient. In Azadirachta, Blumea, Celosia, Tribulus, Xanthium and Tridax based Formulations for Panicum Excess it is added as denary ingredient. For information on complete Formulations and Dosage please visit [pankajoudhia.com](http://pankajoudhia.com)*

Thank you very much for reading the article.

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## Citation

**Oudhia, Pankaj (2014). Traditional medicinal knowledge about *Haplothrips ramakrishnae* K. (Thysanoptera: Phloeothripidae) feeding on Guldaudi (*Chrysanthemum indicum* L.) in Chhattisgarh, India. Updated Version. [pankajoudhia.com](http://pankajoudhia.com)**

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**Traditional medicinal knowledge about *Serica calcuttae* Br. (Coleoptera: Melolonthinae) feeding on Desi Gulab (*Rosa damascena*) in Chhattisgarh, India. Updated Version.**

**Pankaj Oudhia**

## Introduction

Entomophagy and Entomotherapy are well known in Asia since generations. Unfortunately not much work has been done to document valuable Traditional Medicinal Knowledge about Insects. Pankaj Oudhia is documenting this knowledge since year 1990. The present note "Traditional medicinal knowledge about *Serica calcuttae* Br. (Coleoptera: Melolonthinae) feeding on Desi Gulab (*Rosa damascena*) in Chhattisgarh, India." is updated version of his previously published online research document available through [pankajoudhia.com](http://pankajoudhia.com).

**Keywords: Entomophagy; Entomotherapy; Medicinal Insects; Ayurveda; Chhattisgarh;**

Out of the rose species, Desi Gulab (*Rosa damascena*) is preferred by the traditional healers of Chhattisgarh as medicine. In reference literatures, related to different systems of medicine in India, Desi Gulab holds a reputed position as medicinal herb. Its all parts mainly leaves and flowers are used as medicine. I have mentioned in previous articles that the natives and traditional healers of Chhattisgarh use many insect species feeding on Desi Gulab as folk medicine. During the Ethno-entomological surveys conducted in Nagri-Sihawa and Narharpur regions of Chhattisgarh in recent past, I have observed that the traditional healers of these regions use *Serica calcuttae* as medicine. The traditional healers of these regions are well known for their expertise in treatment of different types of fever. The full fed grubs of this insect are added in herbal formulations given internally in treatment of fever. According to the traditional healers, many formulations having promising effects in case of malarial fever are incomplete without the grub powder. The healers further informed that once prepared in bulk, the grub powder can be stored upto long time but as the infestation is common every year, they prefer to use the fresh powder. In commercial farming of Rose, this beetle is considered as problematic pest. I personally feel that there is a strong need to conduct a systematic research on this medicinal insect. According to the traditional healers they have gained this knowledge from their ancestors and without modification they are adding the grub powder in formulations. The grub powder is not used alone.

The use of *Serica calcuttae* feeding on Desi Gulab as medicinal insect has not been reported in reference literatures. As both Desi Gulab and the beetle are common in many parts of the world, I am expecting that this traditional medicinal uses will be of great use for the researchers engaged in utilization of insects as medicine.

#### **New Comments added on June, 2014**

*Through recent surveys I have collected information about over 3500 Formulations in which Serica collected from Desi Gulab is added as important ingredient. These Formulations are used for treatment of different diseases. In Amomum, Curcuma and Vanda based Formulations for Kidney diseases it is added as tertiary ingredient. The Traditional Healers adopt special purification methods before adding it in the Formulations. The Healers of Chhattisgarh use 9 types of purification methods whereas the Healers of Odisha and Jharkhand adopt 10 and 12 types of purification methods. Most of the Healers add it as secret ingredient. In Alpinia, Tropidia and Habenaria based Formulations it is added as quaternary ingredient. These Formulations are used in treatment of nervine disorders. In Rhychostylis and Satyrium based Formulations used for treatment of paralysis it is added as quinary ingredient. Trombidium is also added with Serica. In Podochilus and Pholidata based Formulations it is added as septenary ingredient. These Formulations are useful in treatment of Heart diseases. In Lagerstroemia, Diospyros melanoxylon and Terminalia alata based Formulations it is added as octonary ingredient. These Formulations are used for Chronic Renal Failure. These*

*Formulations are popular among the Healers and the Healers of young generation are practicing this Traditional Knowledge without any modification. They claim that without Serica most of the Formulations are useless. In Oberonia and Nervilia based Formulations it is added as Nonary ingredient. These Formulations are used in treatment of Liver Diseases. For complete information on Formulations and Dosage please visit [pankajoudhia.com](http://pankajoudhia.com)*

Thank you very much for reading the article.

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## Citation

**Oudhia, Pankaj (2014). Traditional medicinal knowledge about *Serica calcuttiae* Br. (Coleoptera: Melolonthinae) feeding on Desi Gulab (*Rosa damascena*) in Chhattisgarh, India. Updated Version. [pankajoudhia.com](http://pankajoudhia.com)**

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**Traditional medicinal knowledge about *Crocallis species* (Lepidoptera: Pyralidae) feeding on Jason (*Hibiscus rosa-sinensis*) in Chhattisgarh, India. Updated Version.**

**Pankaj Oudhia**

## **Introduction**

**Entomophagy and Entomotherapy are well known in Asia since generations. Unfortunately not much work has been done to document valuable Traditional Medicinal Knowledge about Insects. Pankaj Oudhia is documenting this knowledge since year 1990. The present note “Traditional medicinal knowledge about *Crocallis species* (Lepidoptera: Pyralidae) feeding on Jason (*Hibiscus rosa-sinensis*) in Chhattisgarh, India.” is updated version of his previously published online research document available through [pankajoudhia.com](http://pankajoudhia.com).**

**Keywords: Entomophagy; Entomotherapy; Medicinal Insects; Ayurveda; Chhattisgarh;**

Jason (*Hibiscus rosa-sinensis*) is a common, evergreen, ornamental shrub. Its flowers yield dark-purplish dye which is used for making shoe polishes. In Chhattisgarh, it is planted in home gardens. For the natives and traditional healers of Chhattisgarh, Jason is herb of religious and medicinal importance. All parts of Jason are used as folk medicine both internally as well as externally in treatment of many common diseases. Many insect species attack this garden plant. I have mentioned in previous articles that the traditional healers of Chhattisgarh use these insect species for medicinal purposes. *Crocallis* caterpillars infesting Jason leaves are also considered as medicinal insect. Through the recently conducted Ethnoentomological surveys I have collected valuable information on traditional medicinal uses of this caterpillar. The traditional healers of different regions use it for different purpose. The traditional healers of Raipur region use the dried caterpillars in powder form, in treatment of Daad (Ring worm) common in rainy season. In general it is applied externally on affected parts in form of aqueous paste but in complicated cases, it is used in combination with medicinal herbs. The combination of Charota (*Cassia tora*) seeds and caterpillar powder is one of the popularly used combinations. The traditional healers of Narharpur region boil the full fed caterpillars and prepare a decoction. This decoction is given internally. It is considered as promising laxative. In general, the decoction is given to purify the body before starting the systematic treatment. The caterpillars are not used with herbs for this purpose. Many healers of Southern Chhattisgarh consider it as blood purifier but I have yet not seen its practical uses. The traditional healers are not aware of its other traditional medicinal uses. Many healers use the caterpillars as such whereas many healers use it after purification. The healers performing purification operation informed that the purpose of purification is to eliminate its toxic contents. Through the on-going surveys I am trying my best to gather more details on this important aspect.

The above mentioned traditional medicinal uses have yet not been reported in reference literatures. Through this article, it is coming for the first time among the world community.

### **New Comments added on June, 2014**

*Through recent surveys I have collected information about over 7000 Formulations in which Crocallis is added as important ingredient. These Formulations are used in treatment of different diseases both internally as well as externally. In Scirpus, Kyllinga and Careya based Formulations for Blood cancer the Traditional Healers add Crocallis as secondary ingredient. They use Traditional Allelopathic Knowledge to enrich the ingredients before adding it in the Formulations. In Sagittaria, Nelumbo and Paspalum based Formulations for blood purification it is added as tertiary ingredient. In Arisaema and Colocasia based Formulations it is added as quaternary ingredient along with different species of Dioscorea. In Ficus mollis, Ficus religiosa and Ficus rumphii based Formulations it is added as quinary ingredient. These Formulations are popular among the Traditional Healers of Chhattisgarh. They use it in treatment of Sick Cell Anemia. Many Healers perform purification process before adding Crocallis in the Formulations.*

*In case of Acorus toxicity the Healers use Echinops based Formulations. Crocallis is added as secondary ingredient in these Formulations. In case of Curcuma Toxicity the Healers use Calotropis based Formulations. Crocallis is added as tertiary ingredient in these Formulations. In Tamarix based Formulations used to treat Chlorophytum excess Crocallis is added as senary ingredient. In case of Convolvulus Overdose the Healers use Cissus based Formulations. Crocallis is added as septenary ingredient in these Formulations. For information on complete formulations and dosage please visit [pankajoudhia.com](http://pankajoudhia.com)*

Thank you very much for reading the article.

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## Citation

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**Traditional medicinal knowledge about *Cacoecia epicryta* Meyr. (Lepidoptera: Tortricidae) feeding on Champa (*Michelia champaca*) in Chhattisgarh, India. Updated Version.**

**Pankaj Oudhia**



## Introduction

Entomophagy and Entomotherapy are well known in Asia since generations. Unfortunately not much work has been done to document valuable Traditional Medicinal Knowledge about Insects. Pankaj Oudhia is documenting this knowledge since year 1990. The present note “Traditional medicinal knowledge about *Cacoecia epicryta* Meyr. (Lepidoptera: Tortricidae) feeding on Champa (*Michelia champaca*) in Chhattisgarh, India.” is updated version of his previously published online research document available through [pankajoudhia.com](http://pankajoudhia.com).

**Keywords:** Entomophagy; Entomotherapy; Medicinal Insects; Ayurveda; Chhattisgarh;

Champa (*Michelia champaca*) is a large tree generally planted in home gardens. It is also under cultivation in many parts of India for its oil, obtained from flowers and used in perfumery. The sweet-scented, yellow flowers are offered in worship. Champa is well known tree in Chhattisgarh. For the traditional healers it is a valuable medicinal herb. Its all parts are used as medicine both internally as well as externally in treatment of many common diseases. In reference literatures related to different systems of medicine in India, Champa holds a reputed position as medicinal herb. The infestation of *Cacoecia epicryta* is common on Champa. Besides Champa, this leaf eating caterpillar is also a valuable medicine for the traditional healers of Chhattisgarh, particularly the healers engaged in treatment of Jahar (Poison). Through the Ethno-entomological surveys conducted in different parts of Chhattisgarh in recent past, I have noted valuable information on this important aspect. After purification the full fed caterpillars are used internally to nullify the harmful effects of different types of poison. The traditional healers of Bagbahhera region, specialized in treatment of snake bite, recommend the caterpillar powder upto long time, after complete treatment. According to them, the caterpillar powder is capable of nullifying the residual effect of poison after complete treatment. The traditional healers of Gandai-Salewara region start the systematic treatment of any patient from the caterpillar powder. According to them in majority of the cases, the few doses of caterpillar powder cures the trouble effectively in very less time. They explained that the internal use of caterpillar cleans the body and when after this cleaning, the herbal formulations are given, it acts in more promising way. Majority of traditional healers informed that it is effective at initial stages only. The traditional healers are not aware of its other traditional medicinal uses.

The above mentioned traditional medicinal uses are of great relevance as it can save thousands of life around the world effectively. I personally feel that there is a strong need to start a systematic research on different aspects of this medicinal insect without any delay.



## **New Comments added on June, 2014**

*Through recent surveys I have collected information about over 7000 Formulations in which Cacoecia collected from Michelia is added as important ingredient. In case of Cannabis overdose the Traditional Healers use Cynodon based Formulations. In these Formulations Cacoecia is added as tertiary ingredient. In Morus based Formulations for Datura Toxicity the Healers add Cacoecia as septenary ingredient. In case of Urtica Excess the Healers use Trema and Artocarpus based Formulations. Cacoecia is added as octonary ingredient in these Formulations. In case of Tectona Toxicity the Healers use Alnus, Butea and Betula based Formulations. Cacoecia is added as nonary ingredient in these Formulations. These Formulations are given up to long time. In case of Cissus Overdose the Healers use Acacia and Cassia based Formulations. Cacoecia is added as senary ingredient in these Formulations. Salix and Hydrilla based Formulations are used for treatment of Smilax Toxicity. The Healers add Cacoecia as denary ingredient in these Formulations. Acampe and Bulbophyllum based Formulations are used in treatment of Echinops Toxicity. Cacoecia is added as secondary ingredient in these Formulations. For complete information on Formulations and dosage please visit [pankajoudhia.com](http://pankajoudhia.com)*

Thank you very much for reading the article.

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## **Citation**

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**Traditional medicinal knowledge about *Sthenias grisator* Fb. (Coleoptera: Cerambycidae) feeding on *Bougainvillea spectabilis* in Chhattisgarh, India. Updated Version.**

**Pankaj Oudhia**

## **Introduction**

Entomophagy and Entomotherapy are well known in Asia since generations. Unfortunately not much work has been done to document valuable Traditional Medicinal Knowledge about Insects. Pankaj Oudhia is documenting this knowledge since year 1990. The present note “Traditional medicinal knowledge about *Sthenias grisator* Fb. (Coleoptera: Cerambycidae) feeding on *Bougainvillea spectabilis* in Chhattisgarh, India.” is updated version of his previously published online research document available through [pankajoudhia.com](http://pankajoudhia.com).

**Keywords: Entomophagy; Entomotherapy; Medicinal Insects; Ayurveda; Chhattisgarh;**

Bougainvillea is a well known woody scandent or straggling shrub planted in home and public gardens of Chhattisgarh for its handsome bracts. Although it is a native to South America and introduced in Chhattisgarh as ornamental shrub but living with this shrub, the traditional healers have developed many promising medicinal uses of Bougainvillea. Although it is not planted for its medicinal properties but the researchers are considering it as future medicinal crop. Many insect species infest this shrub in gardens. *Sthenias grisator* is one of these species. It damages the Bougainvillea stems considerably. The traditional healers of Chhattisgarh Plains use the full fed beetles as medicinal insect. Through the Ethno-entomological surveys conducted in different parts of Chhattisgarh, I have collected valuable information on this important aspect. This beetle is used both internally as well as externally as medicine. Internally, the use of full fed grubs is preferred whereas externally the full fed adults are used. The traditional healers of different parts of Chhattisgarh Plains use it differently. The full fed grubs are collected and after drying, crushed into powder. This powder is added as main ingredient in popular herbal combinations used in treatment of diabetes. According to the healers, these herbal formulations are incomplete without grub powder. As secret traditional knowledge, the grub powder is used. In general, the healers prepare herbal formulations in front of the patients but add the powder secretly. Many patients when try to get the similar results from the herbal combinations, they get very little success. The healers are in favour of its use judiciously as overdoses can cause big troubles. Like

other herbs, now they have developed many criteria to judge potential shrub as well as potential insect. Through the on-going Ethno-entomological surveys, I am trying my best to gather more information on these criteria. The full fed adults are having miraculous wound healing properties. In powder form it is added in popular herbal combinations specifically used to treat the old wounds. The traditional healers claim that it is beneficial for cancerous wounds but after purification. The full fed adults are not used alone. The traditional healers are not aware of its other medicinal uses and properties.

In reference literatures, *Sthenias grisator* feeding on *Bougainvillea* is not reported as medicinal insect. It seems that the present research article is the first written document on this aspect.

#### **New Comments added on June, 2014**

*Through recent surveys I have collected information about over 5000 Formulations in which Sthenias collected from Bougainvillea is added as important ingredient. These Formulations are used in treatment of different diseases. In Dipteracarpus, Hopea and Morus based Formulations it is added as secondary ingredient. These Formulations are used in treatment of spleen diseases. In Abutilon, Abelmoschus and Vernonia based Formulations it is added as tertiary ingredient. These Formulations are used in treatment of liver diseases by the Traditional Healers of Chhattisgarh. In Gordonia, Shorea and Litsea based Formulations of Chhattisgarh and Odisha it is added as quaternary ingredient. These Formulations are used in treatment of Kidney related diseases. These Formulations are very popular among the Healers. In Calophyllum, Garcinia and Hypericum based Formulations it is added as quinary ingredient. These Formulations are used in treatment of Urticaria. In Mesua and Portulaca based Formulations it is added as nonary ingredient with Entada. These Formulations are used for Revitalization of Pancreas. In Saponaria, Drymaria and Polygala based Formulations it is added as denary ingredient with Habenaria. These Formulations are used for treatment of nervine disorders. For information on complete Formulations and dosage please visit [pankajoudhia.com](http://pankajoudhia.com)*

Thank you very much for reading the article.

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## Citation

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**Traditional medicinal knowledge about *Aphis craccivora* Koch. feeding on Geranium (*Pelargonium graveolens* L'Hér.) in Chhattisgarh, India. Updated Version.**

**Pankaj Oudhia**

## Introduction

Entomophagy and Entomotherapy are well known in Asia since generations. Unfortunately not much work has been done to document valuable Traditional Medicinal Knowledge about Insects. Pankaj Oudhia is documenting this knowledge since year 1990. The present note "Traditional medicinal knowledge about *Aphis craccivora* Koch. feeding on Geranium

**(*Pelargonium graveolens* L'Hér.) in Chhattisgarh, India.” is updated version of his previously published online research document available through [pankajoudhia.com](http://pankajoudhia.com).**

**Keywords: Entomophagy; Entomotherapy; Medicinal Insects; Ayurveda; Chhattisgarh;**

According to the reference literatures, Geranium is a native of South Africa, and now under cultivation in many parts of the world including India. The leafy twigs are source of an essential oil, which is used in soap and toilet preparations. Geranium oil is used for adulterating otto of roses and also for flavouring tobacco products, tooth powder etc. In Chhattisgarh, Geranium, is newly introduced aromatic crop. Its cultivation is limited to Southern Chhattisgarh and at hilly regions. Although the traditional healers and herb collectors claim that it is present in wild but I have yet not seen it. Also the reference literatures on flora do not support its wild occurrence. As the commercial cultivation of medicinal and aromatic crops have started few years back, the infestation of *Aphis craccivora* has been observed on many of these crops. In previous articles, I have mentioned about the damages caused by this Aphid to Kevatch (*Mucuna pruriens*) crop. *Aphis craccivora* is a common pest of leguminous crops. The withering of plants takes place when infestation is severe. A female brings forth upto 54 nymphs. Nymphal stage lasts upto 3-8 days. The traditional healers of specific regions where Geranium is under cultivation are taking keen interest in both the herb and *Aphis* attacking on it. They have discovered and developed many medicinal uses of this medicinal insect in short time. Through the Ethno-entomological surveys, in these regions, I have collected valuable information from the healers. The traditional healers use the full fed nymphs in treatment of nervous system disorders, in many ways. Its use in form of special oil is very popular. The freshly collected nymphs are boiled in Sarson (Mustard seed) oil and when all watery contents evaporate the boiling is stopped and after filter, the special oil is kept for future use. This oil is massaged in forehead, and soles. It is considered beneficial for the patients having the problem of Mirgi (Epilepsy). Its application also results in sound sleep. The patients having the mental depression are also advised by the healers to use it in same manner. The traditional healers also use the full fed nymphs in powder form. The powder is added with dry herbs. The combination is burnt and the patients having the problem of Mirgi (Epilepsy) are advised to inhale the fumes. It is used during the attack. Also in normal times. Through the on-going Ethno-entomological surveys, I am trying my best to gather more information on this important aspect. You will find the details in coming articles.

The above mentioned traditional medicinal uses have yet not been reported in reference literatures. I am feeling fortunate to document this important traditional medicinal knowledge.

**New Comments added on June, 2014**

*Through recent surveys I have collected information about over 1500 Formulations in which Aphis craccivora collected from Geranium is added as important ingredient. In case of Shorea Excess the Traditional Healers use Medicinal Rice Bhejri based Formulations. Aphis craccivora is added as secondary ingredient in these Formulations. In treatment of Grewia Overdose the Healers use Calotropis based Formulations. Aphis craccivora is added as tertiary ingredient in these Formulations. In case of Jatropha Excess the Healers use Bombax based Formulations. Aphis craccivora is added as quaternary ingredient in these Formulations. In Setaria based Formulations for Paspalum Toxicity Aphis craccivora is added as quinary ingredient. In case of Ficus mollis Toxicity the Healers use Solanum xanthocarpum based Formulations. Aphis craccivora is added as denary ingredient in these Formulations. The Healers use Cucumis based Formulations for Abrus Toxicity. Aphis craccivora is added as nonary ingredient in these Formulations. For details about complete Formulations and Dosage please visit [pankajoudhia.com](http://pankajoudhia.com)*

Thank you very much for reading the article.

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## Citation

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**Traditional medicinal knowledge about *Leptocentrus substitutes* Wlk. (Hemiptera: Membracidae) feeding on Asgandh (*Withania somnifera*) in Chhattisgarh, India. Updated Version.**

**Pankaj Oudhia**

## Introduction

Entomophagy and Entomotherapy are well known in Asia since generations. Unfortunately not much work has been done to document valuable Traditional Medicinal Knowledge about Insects. Pankaj Oudhia is documenting this knowledge since year 1990. The present note “Traditional medicinal knowledge about *Leptocentrus substitutes* Wlk. (Hemiptera: Membracidae) feeding on Asgandh (*Withania somnifera*) in Chhattisgarh, India.” is updated version of his previously published online research document available through [pankajoudhia.com](http://pankajoudhia.com).

**Keywords: Entomophagy; Entomotherapy; Medicinal Insects; Ayurveda; Chhattisgarh;**

*Leptocentrus substitutes* is a well known polyphagous insect. In Chhattisgarh, it is becoming a problematic pest of sunflower. It damages tender shoot and stem. In regions, where Asgandh grows naturally in wild, the infestation of *Leptocentrus* is common. During the Ethno-entomological surveys conducted in different parts of Chhattisgarh in recent past, I have observed that many traditional healers use the insect feeding on Asgandh as medicinal insect. The full fed bugs are used most commonly. The bugs are collected and in powder form taken internally as treatment. The healers of Bilaspur region use the insect powder in treatment of diarrhea. In normal cases, the insect powder is given internally with Shahad (Honey). In complicated cases of diarrhea, the insect powder is added in popular herbal combination in which Sonth (Dried Ginger), Saunf (Fennel) and Shakkar (Sugar) are added in equal proportion and pinch of combination is taken internally. The healers have deep faith in this combination and this is the reason they use it very frequently in their routine practice. The traditional healers of Pendra region use the full fed bugs in powder form as general tonic. The patients recovering



from exhaustive diseases are suggested by the traditional healers to take few pinches of this powder with cow milk as body tonic. Earlier, the traditional healers of Pendra region were not aware of medicinal use that were in existence in Bilaspur region and vice-versa, when I informed them, they tried and found it very effective. The traditional healers of other regions are not aware of these uses although both Asgandh and the bug are common in these regions. Through the on-going survey, I am informing the healers about it and getting their feed backs.

In reference literatures, *Leptocentrus substitutes* feeding on Asgandh is not mentioned as medicinal insect. Through the present article, this information is coming for the first time among the world community.

#### **New Comments added on June, 2014**

*Through recent surveys I have collected information about over 7000 Formulations in which Leptocentrus collected from Asgandh is added as important ingredient. These Formulations are used in treatment of different diseases. In Vernonia, Tridax and Trapa based Formulations it is added as quinary ingredient. These Formulations are used in treatment of diseases of nervous system. In Jasminum, Moringa and Acorus based Formulations it is added as senary ingredient. These Formulations are used in treatment of Epilepsy. These Formulations are popular among the expert Traditional Healers. Many of them add Curcuma caesia in these Formulations in order to increase the performance of Leptocentrus as key ingredient. In Sonchus, Silybum and Mimosa based Formulations it is added as quaternary ingredient. These Formulations are used in treatment of Diabetes Complications. In treatment of Migraine the Healers use Laggera, Cissus and Ficus based Formulations. In these Formulations Leptocentrus is added as denary ingredient. In case of Gloriosa Toxicity the Healers use Azadirachta based Formulations. Leptocentrus is added as tertiary ingredient in these Formulations. In case of Tagetes Toxicity the Healers use Hedychium based Formulations. Leptocentrus is added as denary ingredient in these Formulations. For information on complete Formulations and dosage please visit [pankajoudhia.com](http://pankajoudhia.com)*

Thank you very much for reading the article.

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## Citation

**Oudhia, Pankaj (2014). Traditional medicinal knowledge about *Leptocentrus substitutes* Wlk. (Hemiptera: Membracidae) feeding on Asgandh (*Withania somnifera*) in Chhattisgarh, India. Updated Version. [pankajoudhia.com](http://pankajoudhia.com)**

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**Traditional medicinal knowledge about *Helicoverpa armigera* (Hubner) feeding on Lesua (*Digera muricata*) in Chhattisgarh, India. Updated Version.**

**Pankaj Oudhia**

## Introduction

Entomophagy and Entomotherapy are well known in Asia since generations. Unfortunately not much work has been done to document valuable Traditional Medicinal Knowledge about Insects. Pankaj Oudhia is documenting this knowledge since year 1990. The present note "Traditional medicinal knowledge about *Helicoverpa armigera* (Hubner) feeding on Lesua (*Digera muricata*) in Chhattisgarh, India." is updated version of his previously published online research document available through [pankajoudhia.com](http://pankajoudhia.com).

**Keywords: Entomophagy; Entomotherapy; Medicinal Insects; Ayurveda; Chhattisgarh;**

Lesua (*Digera muricata*) grows as wasteland herb in Chhattisgarh. Its tender twigs and inflorescences are used as vegetable. Since generations, this herb is in use as folk medicine. The traditional healers have rich traditional medicinal knowledge about this herb. Its all parts are used both internally as well as externally in treatment of many common diseases. During winter season, the infestation of Gram Pod borer *Helicoverpa armigera* is common on this herb. Gram

pod borer is a notorious and polyphagous insect. Although for the farmers and researchers it is a problematic pest but for the traditional healers of Chhattisgarh, it is a source of valuable medicine. I have mentioned in previous articles that how the Gram pod borer feeding on different hosts are used as medicinal insect by traditional healers. During the Ethno-entomological surveys conducted in Chhattisgarh Plains in recent past, I got additional information about traditional medicinal uses of *Helicoverpa* caterpillars feeding on *Digera* leaves. The traditional healers of Chhattisgarh Plains informed that the full fed caterpillars are used in form of dry powder as medicine. According to them, they have to adopt special precautions during the collection of potential insect. All *Digera* herbs are not considered suitable for the collection of caterpillars. The healthy herbs can give potential caterpillars - they informed. Many times the healers have to wait one or two seasons for the collection of potential insect and in the mean time they have to use the stored caterpillar powder. Facing this problem commonly, they have developed the methods to keep the insect powder safely up to long time. The traditional healers use the caterpillar powder externally in order to reduce the pain. It is commonly used in treatment of Migraine (Adhasisi). In form of aqueous paste the powder is applied externally on painful parts. Many times the herb juice is used in place of water to prepare the aqueous paste. The traditional healers of Dhamtari region burn the powder and suggest the patients having nervous disorders to inhale the fumes. As other promising alternatives are available it is used less commonly but from documentation point of view it is important information.

In reference literatures, these traditional medicinal uses of *Helicoverpa* feeding on *Digera* have yet not been reported. I am feeling fortunate to document this important traditional knowledge.

#### **New Comments added on June, 2014**

*Through recent surveys I have collected information about over 12000 Formulations in which Helicoverpa collected from Digera is used as important ingredient. In case of Burmannia Toxicity the Traditional Healers use Amaranthus based Formulations. Helicoverpa is added as secondary ingredient in these Formulations. In Acampe based Formulations for Datura Overdose the Healers use Alstonia based Formulations. Helicoverpa is added as tertiary ingredient in these Formulations. In case of Aerides Excess the Healers use Momordica based Formulations. Helicoverpa is added as quaternary ingredient in these Formulations. In case of Aenhenrya Toxicity the Healers use Sterculia and Lannea based Formulations. In these Formulations Helicoverpa is added as quinary ingredient. In Arundina based Formulations for Moringa Overdose Helicoverpa is added as senary ingredient. In case of Lagenaria Excess the Healers use Habenaria and Coelogyne based Formulations. In these Formulations Helicoverpa is added as septenary ingredient. In treatment of Liver diseases the Healers use Cottonia based*

*Formulations. Helicoverpa is added as nonary ingredient in these Formulations. For details about complete Formulations and dosage please visit [pankajoudhia.com](http://pankajoudhia.com)*

Thank you very much for reading the article.

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**Traditional medicinal knowledge about Cetonid beetle *Oxycetonia versicolor* Fab. feeding on Brinjal in Chhattisgarh, India. Updated Version.**



**Pankaj Oudhia**

## **Introduction**

**Entomophagy and Entomotherapy are well known in Asia since generations. Unfortunately not much work has been done to document valuable Traditional Medicinal Knowledge about Insects. Pankaj Oudhia is documenting this knowledge since year 1990. The present note “Traditional medicinal knowledge about Cetonid beetle *Oxycetonia versicolor* Fab. feeding on Brinjal in Chhattisgarh, India.” is updated version of his previously published online research document available through [pankajoudhia.com](http://pankajoudhia.com).**

**Keywords: Entomophagy; Entomotherapy; Medicinal Insects; Ayurveda; Chhattisgarh;**

Bhata or Brinjal (*Solanum melongena*) is a well known vegetable crop in Chhattisgarh. It is under cultivation in fairly large areas. The natives consume the fruits of Brinjal as vegetable and use different cooking methods to prepare delicious curries from these fruits. Brinjal is also considered as medicinal herb in Chhattisgarh. The senior natives and traditional healers have in depth traditional medicinal knowledge about this herb. Many insects attack on Brinjal crop and as a result, the vegetable growers use heavy amount of agrochemicals to manage these insects. I have mentioned in previous articles that the traditional healers of many parts use the insects feeding on Brinjal plants as medicine. The insects collected from organically grown Brinjal crop are only used as medicine. During the recently conducted Ethno-Entomological surveys in different parts of Chhattisgarh, I have noted that many traditional healers of Bilaspur region use the adults of Cetonid Beetles *Oxycetonia versicolor* as medicine. The healers collect the full fed beetles from Brinjal plants and after killing, dry it in shade. After complete drying the beetles are dipped in the leaf decoction of undamaged Brinjal plants. Two hours after the dipping, the beetles are dried and converted into powder. This powder is used as medicine. According to the traditional healers, the powder possesses valuable analgesic properties. In form of aqueous paste, they use it as external remedy in treatment of Headache. The paste is applied on affected parts. Many times the healers use this powder in combination with medicinal herbs, in order to increase its effects. Many traditional healers consider this powder very useful in treatment of Bhasir (Piles), specially in case of bleeding piles. According to them, its application with *Blumea lacera* leaves stops the bleeding in very less time. The healers also add the beetle powder in popular herbal combinations used internally in treatment of many common as well as complicated troubles but as traditional secret they are not ready to disclose the formulations. As in case of other medical insects, the traditional healers do not consider the beetles collected from chemically grown Brinjal fields, suitable for the preparation of medicine.

The above mentioned traditional medicinal uses of Cetoniid beetle feeding on Brinjal herbs have not been reported in reference literatures. As these beetles are considered as problematic pest, I am confident that the traditional medicinal knowledge about the utilization of this beetle will of great use for the researchers working on management aspects.

#### **New Comments added on June, 2014**

*Through recent surveys I have collected information about over 8000 Formulations in which Oxycetonia collected from Brinjal is used as important ingredient. These Formulations are used in treatment of different diseases. In Rourea, Spondias and Abrus based Formulations it is added as secondary ingredient. These Formulations are used in treatment of skin diseases. In Desmodium, Dioscorea and Mimosa based Formulations it is added as tertiary ingredient. These Formulations are used for treatment of Pollen Allergy. In Gluta, Buchanania and Semecarpus based Formulations of Bastar it is added as quaternary ingredient. These Formulations are used in treatment of mouth diseases. In Rhus, Rubia and Sabia based Formulations for Habenaria Overdose it is added as senary ingredient. These Formulations are used in treatment of Lichenoid Dematitis. In Aesculus, Abrus and Sapindus based Formulations it is added as quinary ingredient. These Formulations are used in treatment of Rheumatism. These Formulations are popular among the Healers. The Healers of young generation are experimenting with these Formulations and making it stronger. They consider the Formulations of less use without this insect. In Shorea, Tectona and Lannea based Formulations for Cissus Excess it is added as denary ingredient. For information on complete Formulations and dosage please visit [pankajoudhia.com](http://pankajoudhia.com)*

Thank you very much for reading the article.

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## **Citation**

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**Traditional medicinal knowledge about Desert Locust feeding on *Calligonum polygonoides*, in Chhattisgarh, India. Updated Version.**

**Pankaj Oudhia**

## **Introduction**

**Entomophagy and Entomotherapy are well known in Asia since generations. Unfortunately not much work has been done to document valuable Traditional Medicinal Knowledge about Insects. Pankaj Oudhia is documenting this knowledge since year 1990. The present note “Traditional medicinal knowledge about Desert Locust feeding on *Calligonum polygonoides*, in Chhattisgarh, India.” is updated version of his previously published online research document available through [pankajoudhia.com](http://pankajoudhia.com).**

**Keywords: Entomophagy; Entomotherapy; Medicinal Insects; Ayurveda; Chhattisgarh;**

Phog (*Calligonum polygonoides*) is an evergreen xerophytic shrub that commonly grows in semi-arid and arid zones of Rajasthan and adjoining desert belt. Its roots and thick branching stems are used as fuel and tender green Phyllodes (modified stems) form fodder for camels. The flower buds are considered to be effective in treating sun stroke. Phog is not much known herb in Chhattisgarh. It is present in isolated patches in Chhattisgarh. During the Ethno-entomological surveys conducted in different parts of Chhattisgarh, when I found the dead bodies of Desert Locusts (*Schistocerca gregaria* Forsskal, 1775) with the herb vendors coming from Rajasthan state, out of curiosity, I asked them about the purpose of keeping the dead locusts. The herb vendors informed that many traditional healers of Chhattisgarh purchase this desert locust from them. Later, I got opportunity to interact with ten traditional healers that are using Desert Locusts



as medicine. Most of the healers add the dead locust in form of dry powder in different herbal combinations. The herb vendors informed me that the healers purchase the locusts collected from Phog trees only. The full fed locusts are collected. Many healers ask for live locusts but the vendors supply the dead locusts only. The traditional healers do not want to disclose the medicinal properties and uses of dead locusts. After informing them about the importance of on-going documentation work, they informed that the dead locusts feeding on Phog helps in increasing the body resistance, to the great extent when added in herbal combinations used as tonic. The presence of locusts helps the patients to get protection from many troubles round the year. The healers informed that they use locust after purification. Many healers claim that in herbal combinations given to the patients after cure of cancer, these locusts play an important role. The healers have deep faith in these traditional uses. The matter of surprise is that the healers are aware of insects and herbs that are not common in Chhattisgarh. They are practicing this traditional knowledge since generations. I am trying my best to get the information that whether the traditional healers of Rajasthan are aware of these uses or not?

The traditional medicinal uses of Desert Locust have yet not been reported in reference literatures. These uses are coming among the world community, for the first time, through this research article.

#### **New Comments added on June 2014**

*Through recent surveys I have collected information about over 12000 Formulations in which Schistocerca is added as important ingredient. These Formulations are used in treatment of different diseases. In Tylophora, Mesua and Echinops based Formulations for diseases of nervous system the Traditional Healers add Schistocerca as tertiary ingredient. These Formulations are very popular among the Healers. They perform purification process before using it in the Formulations. I have documented information about 20 purification methods. The Healers are not in favour of using these Formulations continuously up to long time. The patients with poor vitality are not allowed to take it. In Hydrocotyl, Plumbago and Bacopa based Formulations for Degenerative Disc Disease it is added as quaternary ingredient. The Healers use Allelopathrically enriched ingredient in these Formulations. In Artemisia, Pavetta and Drosera based Formulations it is added as quinary ingredient. These Formulations are used in treatment of Lichenoid Dermatitis. In Valeriana, Balanites and Acorus based Formulations it is added as senary ingredient. These Formulations are used in treatment of kidney diseases. In treatment of Epilepsy specially old cases the Healers use Corchorus, Soyimida and Commelina based Formulations. Schistocerca is added as nonary ingredient in these Formulations. In Eugenia, Zanthoxylum, Pueraria and Carthamus based Formulations for Gout it is added as*

*denary ingredient. For information on complete Formulations and dosage please visit [pankajoudhia.com](http://pankajoudhia.com)*

Thank you very much for reading the article.

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## Citation

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**The on-going experiments of the traditional healers with medicinal insect Tortoise beetle *Aspidomorpha miliaris* (Coleoptera: Chrysomelidae) in Chhattisgarh, India. Updated Version.**

**Pankaj Oudhia**

## Introduction

Entomophagy and Entomotherapy are well known in Asia since generations. Unfortunately not much work has been done to document valuable Traditional Medicinal Knowledge about Insects. Pankaj Oudhia is documenting this knowledge since year 1990. The present note "The on-going experiments of the traditional healers with medicinal insect Tortoise



beetle *Aspidomorpha miliaris* (Coleoptera: Chrysomelidae) in Chhattisgarh, India.” is updated version of his previously published online research document available through [pankajoudhia.com](http://pankajoudhia.com).

**Keywords:** Entomophagy; Entomotherapy; Medicinal Insects; Ayurveda; Chhattisgarh;

I have mentioned in previous article that the traditional healers of Chhattisgarh specialized in use of medicinal insects and mites, show special interest in insects feeding on medicinal herbs. They claim that many times the insect feeding on specific medicinal herb can be used more safely as medicine than the specific herb because inside the insect body, the toxic content of herb nullifies. The example of medicinal insect of *Datura* sp. is sufficient to prove this effect. *Datura* is considered as poisonous herb having narcotic properties. *Datura* can not be added as such in wine but the excreta of insect feeding on this herb possess less narcotic properties and it is added in wine to make it more powerful (?) by the natives of many parts of Chhattisgarh. You will get many such examples in my previous articles. Tortoise beetle *Aspidomorpha miliaris* (Fabricius, 1775) infests many crops and weeds in Chhattisgarh. The main hosts are Kanda (*Ipomoea batatas*), Beshram (*Ipomoea carnea*), Karmatta Bhaji (*Ipomoea aquatica*), Muscaini Bhaji (*Ipomoea reniformis*) etc. Two years back I presented many beetles collected from different herbs to the traditional healers of Chhattisgarh specialized in use of medicinal insects and mites, with request to evaluate and search the medicinal properties and uses of this Beetle. As Kanda is under cultivation as field crop, the presence of this beetle in crop fields is avoided and it is considered as problematic pest. The one of the reasons for request was to establish this problematic insect as medicinal insect among the Kanda growers, so that when this insect will attack the crop fields instead of applying insecticides the farmers will collect this medicinal insect and sell it to the potential buyers, engaged in manufacture of medicines from this insect. Two years back many healers particularly the senior healers started their research. They asked me about the medicinal uses of Beshram (*Ipomoea carnea*) because this herb is newly introduced herb in Chhattisgarh, only few decades back. When I informed them that the traditional healers of many parts of Chhattisgarh are using its latex in treatment of Safed Daag (Leucoderma), they got the clue and started their experiments. Many healers showed interest in Tortoise beetle feeding on Muscaini Bhaji. In two years, I visited to these healers many times a year. Last month I got some promising information on new uses of this beetle. Without any delay, I am eager to document this important information in order to avoid its misuse. The traditional healers who have focused their studies of Tortoise beetle feeding on Beshram, found it more promising in treatment of Leucoderma as compared to Beshram latex. Beshram latex causes irritation many times but when the adults of Tortoise beetle are used in form of aqueous paste, in specific way, it causes no irritation. The healers are adding Bemchi (*Psoralea corylifolia*) seeds with this aqueous paste in order to make it more promising. I got opportunity to interact with the different patients taking this secret but effective treatment. They were happy with the progress. The traditional healers who have focused their studies on Muscaini confirmed that the Beetles



feeding on Muscaini are showing promising results in flushing out the Pathri (Renal Calculi). These two findings are great and important news for the whole world community. This is a contribution of the healers of present generation for the next generation.

Many such studies are in progress in different parts of Chhattisgarh. I am in touch with the healers engaged in these studies. From time to time, I will give the details of recent progress through my articles.

#### **New Comments added on June 2014**

*Through recent surveys I have collected information about over 16000 Formulations in which Aspidomorpha collected from different Ipomoea species is added as important ingredient. In these Formulations Aspidomorpha is used with Herbal Ingredients. In Pycnospora, Psoralea and Blumea based Formulations it is added as secondary ingredient. These Formulations are used internally in treatment of bleeding Piles. In Pisum, Cicer and Caesalpinia based Formulations it is added as tertiary ingredient. These Formulations are used in treatment of stomach disorders. In treatment of Gallstones the Traditional Healers of Chhattisgarh use Zornia, Rothia and Entada based Formulations. Aspidomorpha is added as quaternary ingredient in these Formulations. These Formulations are popular among the Healers of Chhattisgarh, Odisha and Jharkhand. In Memecylon, Passiflora and Wattakaka based Formulations for Osteoporosis the Healers add it as senary ingredient. In Trichosanthes, Curcuma caesia and Telia Kand based Formulations for Blood cancer it is added as senary ingredient. In general these Formulations are used at advanced stage of the disease. In Acanthospermum, Silybum, Xanthium and Tacca based Formulations for Diabetes Complications it is added as nonary ingredient. For information on complete Formulations and dosage please visit [pankajoudhia.com](http://pankajoudhia.com)*

Thank you very much reading the article.

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## Citation

**Oudhia, Pankaj (2014). The on-going experiments of the traditional healers with medicinal insect Tortoise beetle *Aspidomorpha miliaris* (Coleoptera: Chrysomelidae) in Chhattisgarh, India. Updated Version. [pankajoudhia.com](http://pankajoudhia.com)**

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***Atteva fabriciella* Swederus, 1787 (Lepidoptera: Yponomeutidae) as Medicinal Insect in Chhattisgarh, India. Updated Version.**

**Pankaj Oudhia**

**Introduction**



**Entomophagy and Entomotherapy are well known in Asia since generations. Unfortunately not much work has been done to document valuable Traditional Medicinal Knowledge about Insects. Pankaj Oudhia is documenting this knowledge since year 1990. The present note “*Atteva fabriciella* Swederus, 1787 (Lepidoptera: Yponomeutidae) as Medicinal Insect in Chhattisgarh, India.” is updated version of his previously published online research document available through [pankajoudhia.com](http://pankajoudhia.com).**

**Keywords: Entomophagy; Entomotherapy; Medicinal Insects; Ayurveda; Chhattisgarh;**

During recent visit to the traditional healers of Southern Chhattisgarh having expertise in treatment of Asthma I observed hundreds of Larvae spread on gunny bags. I was not aware of these larvae. I asked the traditional healers about it. They replied that they are preparing medicine for the Asthma and this insect plays important role in the herbal formulation. They were drying it in shade. The healers suggested me to taste the larva. Later they showed me the tree from where they have collected it. The tree was well known tree in the region .It was Maharukh (*Ailanthus excelsa*). I have written a lot on this tree but the use of insects feeding on it was new information for me. I collected all the information available for documentation.

*Atteva fabriciella* (Lepidoptera: Yponomeutidae) is well known defoliator of Ailanthus trees. It is also known as Webworm. The caterpillars feed on leaves and shoots. It is considered as problematic pest. Much work has been done in order to develop pesticides for its management. It is surprising and also a matter of proud that our traditional healers are using it as medicine for many diseases successfully since generations. The medicinal uses of this insect have yet not been reported in reference literatures. Through this research article it is coming among the world community for the first time.

The traditional healers crush the larva after drying it. In form of powder they add it in herbal formulations. According to them in this form it can be stored up to long time. They protect it from moisture. It can be stored up to ten years but as it is easily available the healers use the fresh insects every year.



Old trees are preferred for the collection of larva. The full fed larvae are taken. The sluggishly moving larva is preferred. The larvae from diseased trees are not collected. Many healers irrigate the trees with specific herbal extracts and leachates in order to increase the infestation of these insects. The healers don't want to disclose the contents of these extracts and leachates but the healers aware of the importance of on-going documentation work informed that the Putranjiva tree bark plays an important role in these combinations. Ailanthus trees growing near Mahua trees are not considered suitable for the collection of larvae. The traditional healers of Kanker region informed that every year they collect the larva from the trees of different directions. This traditional norm of collection indicates about the sustainable way of exploiting the natural resources.

The traditional healers use it both internally as well as externally in treatment. I have collected the information on over 40 formulations in which this insect plays an important role. Without it most of the formulations are not considered complete. Its use in Asthma is very popular. It is used internally. Many healers burn the dry powder with herbs like Blumea and direct the fumes to the patient's nose. It acts as dilator and gives immediate relief during acute conditions. The traditional healers use the powder externally in treatment of skin diseases. It is generally used with the herbal formulations used as last hope when all available remedies fail to give desirable effects. In simple trouble alone powder is used but as other promising alternatives are available it is used less commonly. From documentation point of view it is important information. The traditional healers of Keshkal region use the larva as tonic. It is given to the patients recovering from exhaustive diseases. It is given in form of decoction. Many herbs are used to make the decoction more promising.

I have found this larva with the herb traders. They are supplying it to the traditional healers of the regions having less Ailanthus as well as insects. In this way they are earning additional income from the so-called pest. Through this research article I would like to request the researchers working on this insect to focus their studies on utility aspect also. From the on-going surveys I am expecting more interesting information on this aspect.

#### **New Comments added on June 2014**

*Through recent surveys I have collected information about over 8000 Formulations in which Atteva collected from Ailanthus is added as important ingredient. These Formulations are used*

*in treatment of different diseases. In Rhizophora, Curculigo, Dioscorea and Costus based Formulations for Revitalization of Pancreas it is added as secondary ingredient. In Ceriops, Anogeissus and Careya based Formulations it is added as tertiary ingredient. These Formulations are used in treatment of bone cancer specially at initial stage. These Formulations are considered promising by the Traditional Healers of Chhattisgarh. In Syncarpia, Syzygium and Andrographis based Formulations it is added as senary ingredient. These Formulations are used in treatment of malarial fever, The Healers claim that these Formulations act as preventive also. In Ammania, Sonerila and Trixax based Formulations it is added as quinary ingredient. These Formulations are used in treatment of old wound. In Carica, Trapa and Madhuca based Formulations it is added as septenary ingredient. These Formulations are used in treatment of internal bleeding. In Corallocarpus, Diplocyclos and Litsea based Formulations for Metabolic Disorders the Healers add it as denary ingredient. In Mukia, Epiphyllum and Habenaria based Formulations it is added as nonary ingredient. These Formulations are used in treatment of Chronic Renal Failure. For information on complete Formulations and dosage please visit [pankajoudhia.com](http://pankajoudhia.com)*

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**Traditional medicinal knowledge about *Nymphula* sp. (Lepidoptera: Pyralidae) feeding on Kamal (*Nelumbo nucifera*) in Chhattisgarh, India. Updated Version.**

**Pankaj Oudhia**

## Introduction



**Entomophagy and Entomotherapy are well known in Asia since generations. Unfortunately not much work has been done to document valuable Traditional Medicinal Knowledge about Insects. Pankaj Oudhia is documenting this knowledge since year 1990. The present note “Traditional medicinal knowledge about *Nymphula sp.* (Lepidoptera: Pyralidae) feeding on Kamal (*Nelumbo nucifera*) in Chhattisgarh, India.” is updated version of his previously published online research document available through [pankajoudhia.com](http://pankajoudhia.com).**

**Keywords: Entomophagy; Entomotherapy; Medicinal Insects; Ayurveda; Chhattisgarh;**

Kamal is a common aquatic herb whose rhizomes, seeds and young leaves are eaten as vegetable. The rhizome yields a kind of arrow root which is given in dysentery. The fragrant flowers are made into garlands and used for decoction and also offered in worship. Kamal is well known herb in Chhattisgarh. Since generations its different plant parts are in use as folk medicine. The infestation of *Nymphula* caterpillars is common not only in Chhattisgarh but also in other parts of India. The caterpillar has tracheal gills and feeds on leaves of Kamal. The traditional healers of Chhattisgarh Plains are aware of its medicinal properties and uses. Through the recently conducted Ethno-entomological surveys I have collected valuable information on this aspect. The full fed caterpillars are used in powder form. It is commonly used internally as medicine alone or in combination with medicinal herbs. The traditional healers of Raipur region use the caterpillar powder in treatment of common fevers. In combination with Shahad (Honey) it is given internally. According to the healers, its internal use helps in reducing the temperature. Many times it is used as supplement treatment with main treatment. The caterpillar powder is also used with Kamal leaves on which the caterpillar feeds. The traditional healers of Durg region of Chhattisgarh Plains use the full fed caterpillars in powder form in treatment of diarrhea. It is generally added in popular herbal combinations as an important ingredient. According to the traditional healers, this powder plays an important role in herbal combinations. The traditional healers of other parts of India are also aware of these uses. The collection of full fed caterpillars is common in Chhattisgarh. Many herb traders are engaged in its commercial trade. As it is aquatic herb and the collection of caterpillar is difficult task, the collectors charge high price for the collection. The farmers engaged in commercial cultivation of Kamla are earning an additional income from this enemy. The commercial product based on this caterpillar is still not available in markets. I personally feel that there is a strong need to conduct a systematic research on this aspect without any delay.

In reference literatures, these traditional medicinal uses of *Nymphula* caterpillars feeding on Kamal have yet not been reported. I am feeling fortunate to document this important traditional medicinal knowledge.

## New Comments added on June 2014

*Through recent surveys I have collected information about over 5000 Formulations in which Nymphula collected from Nelumbo is added as important ingredient. These Formulations are used in treatment of different diseases. In Premna, Phyla and Vanda based Formulations for Liver diseases it is added as quaternary ingredient. In Tectona, Spilanthes, Acyranthes and Tribulus based Formulations it is added as quinary ingredient. These Formulations are used in treatment of Urticaria. In Gmelina, Careya and Clerodendrum based Formulations it is added as senary ingredient. These Formulations are used in treatment of diseases of nervous system. In Callicarpa, Rungia and Shorea based Formulations for Diabetes Complications it is added as septenary ingredient. In Lepidagathis, Mangifera and Hibiscus based Formulations it is added as octonary ingredient. These Formulations are used in treatment of gynecological diseases. In Desmodium, Blumea and Fimbristylis based Formulations it is added as nonary ingredient with Cissus and Tectona. These Formulations are used in treatment of respiratory diseases. In Hemigraphis, Hygrophila and Trapa based Formulations for Migraine it is added as denary ingredient. In Blepharis and Barleria based Formulations for diseases of eyes it is added as secondary ingredient. For information on complete Formulations and dosage please visit [pankajoudhia.com](http://pankajoudhia.com)*

Thank you very much for reading the article.

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## Citation

**Oudhia, Pankaj (2014). Traditional medicinal knowledge about *Nymphula sp.* (Lepidoptera: Pyralidae) feeding on Kamal (*Nelumbo nucifera*) in Chhattisgarh, India. Updated Version. [pankajoudhia.com](http://pankajoudhia.com)**

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**Traditional medicinal knowledge about *Cochlochila bullita* (Stål) [Hemiptera: Tingidae] feeding on *Coleus aromaticus*, in Chhattisgarh, India. Updated Version.**

**Pankaj Oudhia**

**Introduction**

**Entomophagy and Entomotherapy are well known in Asia since generations. Unfortunately not much work has been done to document valuable Traditional Medicinal Knowledge about Insects. Pankaj Oudhia is documenting this knowledge since year 1990. The present note “Traditional medicinal knowledge about *Cochlochila bullita* (Stål) [Hemiptera: Tingidae] feeding on *Coleus aromaticus*, in Chhattisgarh, India.” is updated version of his previously published online research document available through [pankajoudhia.com](http://pankajoudhia.com).**

**Keywords: Entomophagy; Entomotherapy; Medicinal Insects; Ayurveda; Chhattisgarh;**

According to the reference literatures, Pathharchur (*Coleus aromaticus*) is a common hairy herb native to Indonesia. Its leaves are used for flavouring food products. In Chhattisgarh, it is well known herb. For the traditional healers it is a source of valuable medicine. Since generations it is in use in treatment of Renal calculi. Its Hindi name Pathharchur (Patthar-Stone; Chur - to crush), is clear indication of its medicinal uses. In Chhattisgarh, it is present in wild. Also, recently the cultivation of coleus species has started commercially. Many insect species attack on wild population of *Coleus aromaticus*. *Cochlochila bullita* is one of these insect species. According to the reference literatures, this is a highly destructive pest of *Coleus aromaticus*. The adult is black with hyaline wings. Its thorax has dorsally hollow globular outgrowths, trelliced in design and curved inwards as hollow globules form the other margin of the thorax. The eggs are thrust within the veins or edges of the leaves. The nymphs are flat, black and spinous. All stages of the bug are seen on the leaves sucking sap from them. The infested leaves curl, wither and finally dry up. Besides, medicinal properties and uses of *Coleus*, the traditional healers of *Coleus* rich region of Chhattisgarh are also aware of medicinal uses of *Cochlochila* feeding on it. Through the Ethno-entomological surveys conducted among them, I have collected valuable information on this aspect. The traditional healers use both nymphs and adult bugs in form of powder in treatment of Mirgi (Epilepsy). Its use during attack is most common. During attack, the powder is burnt and the fumes are directed towards the patients. Many times it is used in combination with medicinal herbs, mainly Bach (*Acorus calamus*) and Jatamansi (*Nardostachys jatamansi*). Besides healers, many natives are also aware of these uses. During the surveys, I observed the insect powder with the herb vendors. They sell it to the traditional healers and interested natives of neighbouring states. In treatment of Mirgi, the nymphs and adults are used in another way. The freshly collected nymphs and adults are boiled in base oil (as base oil mustard seed oil is used) and when all watery contents evaporate the boiling is stopped and special oil is kept for future use. This oil is used both as curative (during attack) and preventive to Mirgi. Two-three

drops of oil are applied into the nostrils as treatment. Most of the healers consider it more promising than the insect powder. The traditional healers are not aware of its other traditional medicinal uses.

The above mentioned traditional medicinal uses have yet not been reported in reference literatures. The present research article is the first written document on this aspect.

#### **New Comments added on June 2014**

*Through recent surveys I have collected information about over 2000 Formulations in which Cochlochila collected from Coleus is added as important ingredient. These Formulations are used in treatment of different diseases. In Ochna, Ailanthus and Commiphora based Formulations for Vitality it is added as tertiary ingredient. In Aglaia, Abrus, Boswellia and Garuga based Formulations it is added as quaternary ingredient. These Formulations are used in treatment of Kidney diseases. In Canarium, Commelina, Bryophyllum and Melia based Formulations it is added as senary ingredient. These Formulations are used in treatment of skin diseases. In treatment of Allergies the Traditional Healers use Swietenia and Xylocarpus Formulations. Cochlochila is added as quinary ingredient in these Formulations. In Olax, Cynodon and Woodfordia based Formulations for Diabetes Complications Cochlochila is added as septenary ingredient. In case of Xanthium Overdose the Healers of Chhattisgarh use Cassine and Salacia based Formulations. Cochlochila is added as octonary ingredient in these Formulations. In case of Trombidium Toxicity the Healers use Ipomoea based Formulations. Cochlochila is added as denary ingredient in these Formulations. For information on complete Formulations and dosage please visit [pankajoudhia.com](http://pankajoudhia.com)*

Thank you very much for reading the article.

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**Traditional medicinal knowledge about White Fly *Dialeurodes sp.* feeding on Chilkhan (*Ficus retusa*) in Chhattisgarh, India. Updated Version.**

**Pankaj Oudhia**

## Introduction

Entomophagy and Entomotherapy are well known in Asia since generations. Unfortunately not much work has been done to document valuable Traditional Medicinal Knowledge about Insects. Pankaj Oudhia is documenting this knowledge since year 1990. The present note “Traditional medicinal knowledge about White Fly *Dialeurodes sp.* feeding on Chilkhan (*Ficus retusa*) in Chhattisgarh, India.” is updated version of his previously published online research document available through [pankajoudhia.com](http://pankajoudhia.com).

**Keywords: Entomophagy; Entomotherapy; Medicinal Insects; Ayurveda; Chhattisgarh;**

According to the reference literatures, Chilkhan (*Ficus retusa*) is a large or medium sized evergreen tree with a dense crown. It is native to India and Malaysia. It is grown in Gardens and as an avenue tree. The natives and traditional healers of Chhattisgarh have rich traditional medicinal knowledge about all Ficus species including *Ficus retusa*. The Ficus trees are considered as the trees of religious importance also. Chilkhan is present in almost all parts of Chhattisgarh. Many insects infest this tree in wild. The White fly *Dialeurodes sp.* is one of these

insect species. During the Ethno-entomological surveys conducted in different parts of Chhattisgarh in recent past, I have observed that the traditional healers specialized in treatment of diseases related to respiratory system use the full fed nymphs and adults of this White fly as promising medicine. In form of shade dried powder the full fed nymphs and adults are given internally alone (in normal cases) and in combination with medicinal herbs (in complicated cases). This use is common in almost all parts of Chhattisgarh where these specialist healers live. Many healers suggest the patients having bronchitis to burn the insect powder and inhale the fumes coming from it. It is considered beneficial for them. The traditional healers of Keshkal region use the decoction of full fed nymphs for different purpose. The patients having the problem of throat related troubles are advised by the healers to gargle with this decoction. This use is limited to these healers. The healers using the insect powder internally avoid its use in case of patients having poor vitality. The patients allergic to this powder are suggested by the healers to take the powder in combination with Chilkhan leaves. According to the healers the natural chemicals present in Chilkhan leaves nullify the harmful effects. In general, the healers do not inform the patients that they are using insect powder as medicine.

The above mentioned traditional medicinal uses of this White fly species feeding on *Ficus retusa* have yet not been reported in reference literatures. Through the present article, this valuable information is coming among the world community, for the first time.

#### **New Comments added on June 2014**

*Through recent surveys I have collected information about over 6000 Formulations in which Dialeurodes collected from Ficus is added as important ingredient. These Formulations are used in treatment of different diseases. In Anacardium, Leucas and Panicum based Formulations for mental depression it is added as tertiary ingredient. In Orthosiphon, Anisochilus and Rubia based Formulations it is added as secondary ingredient. These Formulations are used in treatment of blood related diseases. These Formulations are popular among the Traditional Healers. In order to make it stronger they add wild orchids, mushrooms and medicinal insects in these Formulations but Dialeurodes plays key role. In Cucurbita, Vateria and Asteracantha based Formulations for general weakness it is added as quinary ingredient. In Hibiscus, Mesua and Alangium based Formulations for Revitalization of Pancreas it is added as senary ingredient. These Formulations are used in treatment of diseases of nervous system. In Saraca, Haldina and Sphaeranthus based Formulations for premature hair fall it is added as denary ingredient. In Opuntia, Cuscuta, Abutilon and Ventilago based Formulations it is added as nonary ingredient. These Formulations are used in treatment of Diabetes Complications. For complete information on Formulations and dosage please visit [pankajoudhia.com](http://pankajoudhia.com)*

Thank you very much for reading the article.

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pankajoudhia.com**

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**Traditional medicinal knowledge about *Tricentrus congestus* (Walker 1870) [Hemiptera: Membracidae] feeding on Asgandh (*Withania somnifera*) in Chhattisgarh, India. Updated Version.**

**Pankaj Oudhia**

## Introduction

Entomophagy and Entomotherapy are well known in Asia since generations. Unfortunately not much work has been done to document valuable Traditional Medicinal Knowledge about Insects. Pankaj Oudhia is documenting this knowledge since year 1990. The present note "Traditional medicinal knowledge about *Tricentrus congestus* (Walker 1870) [Hemiptera: Membracidae] feeding on Asgandh (*Withania somnifera*) in Chhattisgarh, India." is updated version of his previously published online research document available through [pankajoudhia.com](http://pankajoudhia.com).

**Keywords: Entomophagy; Entomotherapy; Medicinal Insects; Ayurveda; Chhattisgarh;**

For the first time I observed the infestation of *Tricentrus congestus* on wild population of Asgandh (*Withania somnifera*) during Ethno-entomological surveys in Southern Chhattisgarh. The traditional healers of this region are not only aware of this infestation but also they are using the full fed bugs as medicine. I have yet not seen its infestation in cultivated fields of Asgandh in



other parts of Chhattisgarh. Also the traditional healers of other regions are not aware of its medicinal uses. The traditional healers of Southern Chhattisgarh use the full fed bug externally in form of special oil. They have specific criteria for the collection of potential bug to be used as medicine. Very active bugs are not considered suitable. Asgandh herbs growing near to water bodies are not preferred for the collection of bugs. The bug sited on other herbs although it is feeding on Asgandh, is ignored. When the healers visit to natural forest for the collection of this bug, they keep blue coloured cloth with them. The bugs are transported to the homes in this cloth. They are unable to give the scientific explanation but as traditional practice, they are following it sincerely. As the infestation of *Tricentrus* is common on Asgandh, the healers collect the fresh lot of bugs every year, but they are aware that how the bugs can be stored safely upto very long time. If stored properly, the fresh and old bugs give similar results-the healers informed. Like worship ceremony performed before the collection of herbs by the healers, during the collection of *Tricentrus* the healers adopt the same procedure. The traditional healers of Southern Chhattisgarh prepare a special oil from freshly collected full fed bugs. The bugs are dipped in Sarson (Mustard seed) oil and the mixture is kept under sunlight for a month. After this duration, the mixture is filtered and special oil is collected. This special oil is considered as a boon for the patients having all types of skin related troubles. This oil is used externally. Although through this special oil, common cases of skin diseases can be treated successfully but the traditional healers use this oil for complicated cases. It is used in treatment of old wounds, also in treatment of cancerous wound. Its effectiveness has established this oil as promising oil. Many healers add medicinal herbs in this oil during its preparation but most of the healers confirmed that alone insect based oil is capable of treating most of the cases, successfully. The traditional healers are not aware of its other traditional medicinal uses. Through the on-going ethno-entomological surveys, I am trying my best to gather more information on this important aspect. The special oil is not available as commercial product in market. I personally feel that there is a tremendous scope in this field.

The above mentioned traditional medicinal uses have yet not been reported in reference literatures. I am feeling fortunate to document this important traditional medicinal knowledge.

#### **New Comments added on June 2014**

*Through recent surveys I have collected information about over 5000 Formulations in which Tricentrus collected from Withania is added as important ingredient. These Formulations are used in treatment of different diseases. In Cyperus, Commelina and Kyllinga based Formulations it is added as secondary ingredient. These Formulations are used in treatment of stomach disorders. The Traditional Healers of Odisha use Eleocharis, Tridax and Mentha based Formulations for same trouble and Tricentrus is added as secondary ingredient. They are not*

*aware of the Formulations used by the Healers of Chhattisgarh. In Eriocaulon, Bulbostylis and Fimbristylis based Formulations it is added as tertiary ingredient. These Formulations are used in treatment of nervine disorders. In Habenaria, Blumea and Achyranthes based Formulations for Kidney Diseases it is added as quaternary ingredient. The Healers of Jharkhand use Vanda, Cassia tora and Terminalia based Formulations for vitality. Tricentrus is added as senary ingredient in these Formulations. It is added as secret ingredient in these Formulations. I have found these Formulations with the herb vendors coming from Jharkhand. They collect the Formulations from Healers and in most of the cases not aware of its ingredients. In Carex, Najas and Caesalpinia based Formulations for Diabetes Complications it is added as quinary ingredient. The Healers perform purification process before using it in the Formulations. In Rhynchospora, Scirpus and Mukia based Formulations for Malaria it is added as septenary ingredient. For complete information on Formulations and dosage please visit at [pankajoudhia.com](http://pankajoudhia.com)*

Thank you very much for reading the article.

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**Traditional medicinal knowledge about Gram Pod borer *Helicoverpa armigera* (Hubner) feeding on *Paninoid* (*Convolvulus hispidus*) in Chhattisgarh, India. Updated Version.**

**Pankaj Oudhia**

## Introduction

Entomophagy and Entomotherapy are well known in Asia since generations. Unfortunately not much work has been done to document valuable Traditional Medicinal Knowledge about Insects. Pankaj Oudhia is documenting this knowledge since year 1990. The present note “Traditional medicinal knowledge about Gram Pod borer *Helicoverpa armigera* (Hubner) feeding on Paninoi (*Convolvulus hispidus*) in Chhattisgarh, India.” is updated version of his previously published online research document available through [pankajoudhia.com](http://pankajoudhia.com).

**Keywords:** Entomophagy; Entomotherapy; Medicinal Insects; Ayurveda; Chhattisgarh;

Paninoi (*Convolvulus hispidus*) is a robust, twisting annual commonly grows as wasteland herb. Its leaves and stems are used as vegetable. Gram pod borer *Helicoverpa armigera* is well known polyphagous insect. Besides, its heavy infestation on Gram, it attacks on many wasteland herbs. Paninoi is one of these herbs but the infestation is relatively less in Chhattisgarh. The traditional healers of Chhattisgarh Plains aware of medicinal properties and uses of *Helicoverpa* feeding on different hosts, are using the full fed caterpillars collected from *Convolvulus hispidus* herb, as medicine. Through the Ethno-entomological surveys conducted in recent past, I have collected the information on its traditional medicinal uses. The full fed caterpillars are used internally in powder form. The traditional healers specialized in treatment of different types of fever add the powder in popular herbal combinations used in treatment. Although the caterpillar powder is added in smaller amount but according to the traditional healers it plays an important role in the formulation. The traditional healers of Raipur region use the caterpillar powder in treatment of spleen related troubles. You will be surprised to know that Paninoi is not used in treatment of these diseases. I personally feel that there is a strong need to start a systematic research on this aspect as alone Paninoi or *Helicoverpa* is not used as medicine for spleen related troubles and in treatment of fever but full fed caterpillar possess the natural chemicals beneficial for these troubles. The traditional healers are not aware of its other medicinal uses. Through the on-going surveys I am trying my best to gather more information on this important aspect.

These traditional medicinal uses have yet not been reported in reference literatures. I am feeling fortunate to document this important traditional medicinal knowledge.

## New Comments added on June 2014

*Through recent surveys I have collected information about over 9000 Formulations in which Helicoverpa collected from Convolvulus is added as important ingredient. These Formulations*

*are used in treatment of different diseases both internally as well as externally. In Floscopa, Murdannia and Cyanotis based Formulations Helicoverpa is added as denary ingredient. These Formulations are used in treatment of skin diseases. In treatment of Migraine the Traditional Healers use Juncus, Areca and Cocos based Formulations. Helicoverpa is added as nonary ingredient in these Formulations with Curcuma caesia. In Dioscorea, Costus and Tacaac based Formulations for gynecological diseases Helicoverpa is added as octonary ingredient. In Borassus, Calamus and Caryota based Formulations for Blood Cancer Helicoverpa is added septenary ingredient. In Sabal, Pandanus and Typha based Formulations for Diabetes Complications Helicoverpa is added as quinary ingredient with Physalis and Echinops. In treatment of old cough the Healers use Arisaema, Colocasia and Cajanus based Formulations. Helicoverpa is added as quaternary ingredient in these Formulations. In case of Blumea Excess the Healers use Pothos and Plumbago based Formulations. Helicoverpa is added as tertiary ingredient in these Formulations. For information on complete Formulations and dosage please visit [pankajoudhia.com](http://pankajoudhia.com)*

Thank you very much for reading the article.

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**Traditional medicinal knowledge about Cow bug *Otinotus oneratus* Walk. (Membracidae: Hemiptera) feeding on Asgandh (*Withania somnifera*) in Chhattisgarh, India. Updated Version.**

**Pankaj Oudhia**

## Introduction

**Entomophagy and Entomotherapy are well known in Asia since generations. Unfortunately not much work has been done to document valuable Traditional Medicinal Knowledge**

**about Insects. Pankaj Oudhia is documenting this knowledge since year 1990. The present note “Traditional medicinal knowledge about Cow bug *Otinotus oneratus* Walk. (Membracidae: Hemiptera) feeding on Asgandh (*Withania somnifera*) in Chhattisgarh, India.” is updated version of his previously published online research document available through [pankajoudhia.com](http://pankajoudhia.com).**

**Keywords: Entomophagy; Entomotherapy; Medicinal Insects; Ayurveda; Chhattisgarh;**

Asgandh (*Withania somnifera*) is a well known medicinal herb around the world. It is known as Indian Ginseng. The natives and traditional healers have in depth traditional medicinal knowledge about this herb. It grows in wild. Also it is under cultivation as medicinal crop in Chhattisgarh. All parts of Asgandh are used as medicine both internally as well as externally. Asgandh holds a reputed position as medicinal herb in reference literatures related to different systems of medicine in India. Its roots are employed for consumption, general weakness and rheumatism. The infestation of Cow bug *Otinotus oneratus* on Asgandh is common in Chhattisgarh. During the Ethno entomological surveys conducted in different parts of Chhattisgarh in recent past I have observed that many traditional healers collect the Cow bugs from wild population of Asgandh and use it as medicinal insect. The traditional healers of Nagri-Sihawa region add the Cow bug powder in popular herbal combinations as main ingredient, used in treatment of different types of fever. It is considered very useful in treatment of Malarial fever. In combination with cow urine the powder is used externally in treatment of Daad (Ring worm). The powder is applied in form of aqueous paste externally on affected parts. The use is continued till complete cure. According to the traditional healers, it is one of the promising treatments of Daad. In many parts of Chhattisgarh, the senior natives use the same combination in treatment of skin diseases common in cattle. The healers have deep faith in these traditional medicinal uses. Its popularity among them clearly indicates its efficacy. The traditional healers are not aware of other uses of this Cow bug.

In reference literatures, the Cow bug feeding on Asgandh is not mentioned as medicinal insect. I am feeling fortunate to document the important information on traditional medicinal uses of this insect.

#### **New Comments added on June 2014**

*Through recent surveys I have collected information about over 6000 Formulations in which *Otinotus* collected from *Withania* is added as important ingredient. These Formulations are used in treatment of different diseases. In *Allium*, *Smilax* and *Tacca* based Formulations for patients*

*with poor vitality Otinotus is added as secondary ingredient. In treatment of old fever the Traditional Healers use Madhuca and Cassia based Formulations. Otinotus is added as tertiary ingredient in these Formulations with Curculigo and Tribulus. In Iphigenia, Agapanthus and Neem based Formulations for skin diseases Otinotus is added as quaternary ingredient. In Chlorophytum, Asparagus and Gloriosa based Formulations for Bone cancer Otinotus is added as senary ingredient. These Formulations are popular among the Healers of Chhattisgarh and Odisha. In Asphodelus, Urginea and Cyperus based Formulations for Paralysis the Healers add Otinotus as quinary ingredient. In Scilla, Dipcadi and Trichopus based Formulations for Migraine the Healers add Otinotus as septenary ingredient. In Echinochloa, Panicum and Lepidium based Formulations for Diabetes Complications Otinotus is added as nonary ingredient. In case of Abrus Toxicity the Healers use Cissus based Formulations. Otinotus is added as denary ingredient in these Formulations. For information on complete Formulations and dosage please visit [pankajoudhia.com](http://pankajoudhia.com)*

Thank you very much for reading the article.

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## **Citation**

**Oudhia, Pankaj (2014). Traditional medicinal knowledge about Cow bug *Otinotus oneratus* Walk. (Membracidae: Hemiptera) feeding on Asgandh (*Withania somnifera*) in Chhattisgarh, India. Updated Version. [pankajoudhia.com](http://pankajoudhia.com)**

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**Traditional medicinal knowledge about *Crocidosema plebeiana* Zell. (Lepidoptera: Eucosmidae) feeding on Gulkhaira (*Althaea officinalis*) in Chhattisgarh, India. Updated Version.**

**Pankaj Oudhia**

### **Introduction**

Entomophagy and Entomotherapy are well known in Asia since generations. Unfortunately not much work has been done to document valuable Traditional Medicinal Knowledge about Insects. Pankaj Oudhia is documenting this knowledge since year 1990. The present note “Traditional medicinal knowledge about *Crocidosema plebeiana* Zell. (Lepidoptera: Eucosmidae) feeding on Gulkhaira (*Althaea officinalis*) in Chhattisgarh, India.” is updated version of his previously published online research document available through [pankajoudhia.com](http://pankajoudhia.com).

**Keywords: Entomophagy; Entomotherapy; Medicinal Insects; Ayurveda; Chhattisgarh;**

According to the reference literatures Gulkhira (*Althaea officinalis*) is an ornamental herb, native to E. Europe. It is under cultivation in many parts of India. It is considered as one of the important medicinal herbs also. Its root is demulcent and emollient and an infusion of flowers recommended in bronchial catarrh and bronchitis. It is considered to be very useful herbal cough remedy. In Chhattisgarh, this herb is planted as ornamental herb in home and public gardens. The traditional healers are aware of its medicinal uses and properties. The traditional healers also use the insect species feeding on different plants parts of Gulkhaira as medicine. *Crocidosema plebeiana* is one of these insect species. Through the Ethno-entomological surveys conducted among the traditional healers in recent past, I have collected valuable information on traditional medicinal uses of this insect. The full fed caterpillars are used both internally as well as externally in treatment. The traditional healers of Chhattisgarh are aware of use of Gulkhaira in treatment of respiratory troubles. Many healers add the dry caterpillar powder in Gulkhaira based formulations in order to increase its effectiveness. The full fed caterpillars are collected and after shade drying, converted into powder. They boil the freshly collected caterpillars in Sarson (Mustard seed) oil, when all watery contents evaporate, the boiling is stopped and oil is filtered. This special oil is considered very useful in treatment of Bavasir (Piles). The patients are advised to apply it on affected part. In general, the traditional healers prepare it in bulk at their homes and

give it to the patients in limited quantity without disclosing its contents. This oil is very popular among the traditional healers. Its popularity clearly indicates its efficacy. In order to stop the bleeding from piles, as initial measures many healers suggest the patients to just apply the freshly collected caterpillars on it. The traditional healers are not aware of its other medicinal uses.

The above mentioned traditional medicinal uses have yet not been reported in reference literatures. As Gulkhaira and caterpillar both are common in many parts of the world, I am expecting that this information is of great importance for the researchers around the world.

#### **New Comments added on June 2014**

*Through recent surveys I have collected information about 3000 Formulations in which Crocidosema collected from Althaea is added as important ingredient. These Formulations are used in treatment of different diseases. In Habenaria, Vanda and Luisia based Formulations for premature ejaculation the Traditional Healers add Crocidosema as septenary ingredient. In Malleola, Nervilia and Oberonia based Formulations for Mental Depression the Healers add Crocidosema as octonary ingredient. In Goodyera and Geodorum based Formulations for diseases related to male genitalia the Healers add Crocidosema as nonary ingredient. In Pachystoma, Vanda and Pecteilis based Formulations it is added as denary ingredient. These Formulations are used in treatment of nervine disorders. In Porpax and Pholidota based Formulations it is added as quaternary ingredient. These Formulations are used in treatment of gynecological diseases. In Rhynchosyilis and Satyrium based Formulations for Kidney diseases the Healers add it as senary ingredient. For information on complete Formulations and dosage please visit [pankajoudhia.com](http://pankajoudhia.com)*

Thank you very much for reading the article.

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**Oudhia, Pankaj (2014). Traditional medicinal knowledge about *Crociosema plebeiana* Zell. (Lepidoptera: Eucosmidae) feeding on Gulkhaira (*Althaea officinalis*) in Chhattisgarh, India. Updated Version. [pankajoudhia.com](http://pankajoudhia.com)**

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**Traditional medicinal knowledge about *Melanitis leda ismene* (Cramer) caterpillars feeding on Guinea Grass (*Panicum maximum*) in Chhattisgarh, India. Updated Version.**

**Pankaj Oudhia**

## Introduction

Entomophagy and Entomotherapy are well known in Asia since generations. Unfortunately not much work has been done to document valuable Traditional Medicinal Knowledge about Insects. Pankaj Oudhia is documenting this knowledge since year 1990. The present note “Traditional medicinal knowledge about *Melanitis leda ismene* (Cramer) caterpillars feeding on Guinea Grass (*Panicum maximum*) in Chhattisgarh, India.” is updated version of his previously published online research document available through [pankajoudhia.com](http://pankajoudhia.com).

**Keywords:** Entomophagy; Entomotherapy; Medicinal Insects; Ayurveda; Chhattisgarh;

According to the reference literatures, *Melanitis leda ismene*, also known as Horned caterpillar of Rice is a common pest of rice. The adult is a dark-brown butterfly which lays round white eggs on rice leaves. The caterpillar, locally known as Illi is green with a roughened skin, head bearing a pair of red horn like processes and anal end produced into two slender processes. This caterpillar use *Panicum maximum* as an alternate host. Panicum grows as grassy weed in many parts of Chhattisgarh. During the Ethno-entomological surveys conducted in different parts of Chhattisgarh in recent past, I have observed that the traditional healers of Chhattisgarh Plains use the full fed caterpillars as medicine. The caterpillars are collected during dusk and after shade drying, converted into powder. Once prepared in bulk, it is used upto long time. The traditional healers of different regions prepare it for different purposes. The traditional healers of Raipur region suggest the patients having the problem of excessive sweating on extremities to apply the insect powder in form of aqueous paste on affected parts. According to them, the regular use of aqueous paste in this manner cures the trouble effectively in very less time. You will be surprised to know that the Panicum herb is not used for this purpose. The traditional healers of Gandai-Salewara region use the caterpillar powder externally as styptic to check the flow of blood from injured parts. The traditional healers of Keshkal region add the caterpillar powder in popular herbal combinations used to stop all types of internal bleeding. The traditional healers of Rajnandgaon region use the caterpillar powder in treatment of Piles externally but as other promising alternatives are available it is used less commonly for this purpose. The traditional healers are not aware of its other medicinal uses. As Rice, Panicum and Melanitis all are common in other parts of Chhattisgarh, I am confident that through the on-going ethnobotanical surveys I will be able to get more information on this important aspect.

The above mentioned traditional medicinal uses of *Melanitis* feeding on *Panicum maximum* have yet not been reported in reference literatures. This research article is the first written document on this important aspect.

#### **New Comments added on June 2014**

*Through recent surveys I have collected information about over 6000 Formulations in which Melanitis collected from Panicum is added as important ingredient. These Formulations are used in treatment of different diseases. In Schleicheria, Chloroxylon and Tacca based Formulations for Blood Cancer Melanitis is added as septenary ingredient. The Traditional Healers perform purification processes before adding it in the Formulations. The Healers of different regions use different purification methods. In Tridax, Tricholepis and Laggera based Formulations it is added as octonary ingredient. These Formulations are used in treatment of internal bleeding. In Guizotia, Lagascea and Xanthium based Formulations it is added as senary ingredient with Physalis. These Formulations are used in treatment of gynecological diseases. In*

*Glossocardia, Launaea and Galinsoga based Formulations it is added as quinary ingredient. These Formulations are used in treatment of nervine disorders. In Bidens, Conyza and Disocorea based Formulations for Rheumatism it is added as quaternary ingredient. In Pimpinella, Rubus and Rubia based Formulations for bone diseases it is added as denary ingredient. In Withania, Mucuna and Asparagus based Formulations for sexual health it is added as nonary ingredient. For information on complete Formulations and dosage please visit [pankajoudhia.com](http://pankajoudhia.com)*

Thank you very much for reading the article.

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**Oudhia, Pankaj (2014). Traditional medicinal knowledge about *Melanitis leda ismene* (Cramer) caterpillars feeding on Guinea Grass (*Panicum maximum*) in Chhattisgarh, India. Updated Version. [pankajoudhia.com](http://pankajoudhia.com)**

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**Traditional medicinal knowledge about *Heteropsylla cubana* Crawford, 1914 feeding on Subabool (*Leucaena leucocephala*) in Chhattisgarh, India. Updated Version.**

**Pankaj Oudhia**

## Introduction

Entomophagy and Entomotherapy are well known in Asia since generations. Unfortunately not much work has been done to document valuable Traditional Medicinal Knowledge about Insects. Pankaj Oudhia is documenting this knowledge since year 1990. The present note "Traditional medicinal knowledge about *Heteropsylla cubana* Crawford, 1914 feeding on Subabool (*Leucaena leucocephala*) in Chhattisgarh, India." is updated version of his previously published online research document available through [pankajoudhia.com](http://pankajoudhia.com).

**Keywords: Entomophagy; Entomotherapy; Medicinal Insects; Ayurveda; Chhattisgarh;**

Subabool (*Leucaena leucocephala*) is a shrub or small tree native to tropical America and now naturalized throughout India. The young fruits and seeds are edible and leaves and pods are fed to cattle, sheep and goats. It is also grown as shade and cover plant in tea, coffee and rubber plantation. In Chhattisgarh, it is introduced in recent past but the traditional healers of present generation have discovered many important medicinal uses of Subabool. The Psyllid *Heteropsylla cubana* is a common pest of Subabool. Its attack results in complete drying of

foliage with stunted growth. During the Ethno-entomological surveys conducted in different parts of Chhattisgarh I have observed that the traditional healers of Chhattisgarh use the full fed insect feeding on Subabool as medicine. The insects are used externally also. I have mentioned in previous articles that the pods and leaves of Subabool are used as promising hair remover externally. The traditional healers informed that the full fed insect also possess similar properties but in effect it is more powerful. Its regular application in form of aqueous paste prevents the growth of new flush of hairs. The traditional healers of Raipur region, boil the full fed insect in Til (Sesame seed) oil and when all watery contents evaporate the boiling is stopped. The special oil is massaged externally on thumbs of legs. This massage is considered as a boon for the patients having poor eye sight. This use is very popular among the traditional healers. Its popularity clearly indicates its efficacy. The full fed insects are also added in popular herbal combination used externally in treatment of Safed Dag (Leucoderma). According to the traditional healers, this insect plays an important role in making the combination powerful. The traditional healers are not much aware of its other medicinal uses. They are in process of development of new uses.

These traditional medicinal uses of *Heterophylla cubana* feeding on Subabool have not been reported in Chhattisgarh. This research article is a first written document on this important aspect.

#### **New Comments added on June 2014**

*Through recent surveys I have collected information about over 2500 Formulations in which Heterophylla collected from Subabool is added as important ingredient. These Formulations are used in treatment of different diseases. In Capparis, Cleome and Papaver based Formulations for diseases of nervous system Heterophylla is added as septenary ingredient. In Cissus, Trapa and Tacca based Formulations for premature hair fall Heterophylla is added as octonary ingredient. In Sisymbrium, Flacourtia and Cochlospermum based Formulations for Diabetes Complications Heterophylla is added as senary ingredient. In Casearia, Stellaria and Garcinia based Formulations for skin diseases Heterophylla is added as quinary ingredient. In Neumbium, Argemone and Tinospora based Formulations for unexplained fever Heterophylla is added as quaternary ingredient. In Coscinium, Berberis and Viola based Formulations for Revitalization of Pancreas Heterophylla is added as secondary ingredient. In case of Anogeissus Excess the Traditional Healers use Saponaria based Formulations. Heterophylla is added as denary ingredient in these Formulations. For information on complete Formulations and dosage please visit [pankaoudhia.com](http://pankaoudhia.com)*

Thank you very much for reading the article.

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**Traditional medicinal knowledge about Mango stone Weevil *Sternuchus mangiferae* (Fabricius) [Coleoptera : Curculionidae] in Chhattisgarh, India. Updated Version.**

**Pankaj Oudhia**

## Introduction

Entomophagy and Entomotherapy are well known in Asia since generations. Unfortunately not much work has been done to document valuable Traditional Medicinal Knowledge about Insects. Pankaj Oudhia is documenting this knowledge since year 1990. The present note "Traditional medicinal knowledge about Mango stone Weevil *Sternuchus mangiferae* (Fabricius) [Coleoptera : Curculionidae] in Chhattisgarh, India." is updated version of his previously published online research document available through [pankajoudhia.com](http://pankajoudhia.com).

**Keywords: Entomophagy; Entomotherapy; Medicinal Insects; Ayurveda; Chhattisgarh;**

According to the Dr. M.R.G.K. Nair's well known book on Entomology titled 'Insects and mites of crops in India', *Sternuchus mangiferae* is found all over the country. The adult is a stoutly-built, dark brown weevil found inside the stone of the fruit. The eggs are laid just under the rind of ripening fruit. The larva tunnels its way straight into the nut where in it grows feeding on the internal contents. Pupation takes place inside the nut itself. The adults emerging out of the pupae remain inside the nuts till they are thrown away after the consumption of the pulp. Aam (Mango) is well known fruit crops of Chhattisgarh. The attack of stone weevil is common in the state. During the Ethno-entomological surveys conducted in different parts of Chhattisgarh, in recent past, I have noted that the traditional healers of Chhattisgarh Plains use the stone (Guthli) with

insect as medicine. They have specific traditional methods to judge whether the stone is with insect or not. The stone is used separately also as medicine but insects are not collected for separate use. The stones with insect are dried in shade and converted into powder. This powder is added in popular herbal combinations used as sex tonic. According to the traditional healers, the stone powder plays an important role in herbal combinations. The traditional healers of Gariaband region use the stone with insect in treatment of Bavasir (Piles) both internally as well as externally. Internally the powder is given twice a day with lukewarm water. Externally, the powder is applied in form of aqueous paste on affected parts. The healers informed that both internal and external uses at a time cure the trouble effectively in very less time. The traditional healers of Dhamtari region informed that the stone powder is having the capacity to absorb extra heat from human body. This is the reason, they apply the powder on painful boils in order to suppress it. The powder is applied in form of aqueous paste. Alone stone is also used for this purpose but according to the traditional healers of Dhamtari region, the stones having insects are more promising. I have observed during the surveys that many herb vendors collect and sell the stones having insects to the traditional healers of neighbouring states. According to the traditional healers, they are practicing this traditional knowledge since generations. The stones of indigenous varieties are used only.

These traditional medicinal uses have yet not been reported in reference literatures. I am feeling proud to document this important traditional medicinal knowledge.

#### **New Comments added on June 2014**

*Through recent surveys I have collected information about over 7000 Formulations in which Sternochetus is added as important ingredient. These Formulations are used in treatment of different diseases. In Eugenia, Buchanania and Cissus based Formulations for Herpes Sternochetus is added as secondary ingredient. In Trapa, Nelumbium, Tacca and Tribulus based Formulations for Vitality Sternochetus is added as tertiary ingredient with Saccharum and Ocimum. In Toona, Semecarpus and Lathyrus based Formulations for gynecological diseases Sternochetus is added as quaternary ingredient with Cicer and Vicia. In Linum, Feronia and Celastrus based Formulations Sternochetus is added as quinary ingredient. These Formulations are used in treatment of Diabetes Complications. In Carthamus, Melilotus, Syzygium and Mitragyna based Formulations for Cancer complications Sternochetus is added as septenary ingredient. In Dolichos, Gardenia and Vanda based Formulations for skin allergy Sternochetus is added as denary ingredient. In cases of Datura Toxicity the Healers use Kydia based Formulations. Sternochetus is added as nonary ingredient in these Formulations. For information on complete Formulations and dosage please visit [pankajoudhia.com](http://pankajoudhia.com)*

Thank you very much for reading the article.

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## **Citation**

**Oudhia, Pankaj (2014). Traditional medicinal knowledge about Mango stone Weevil *Sternochetus mangiferae* (Fabricius) [Coleoptera : Curculionidae] in Chhattisgarh, India. Updated Version. [pankajoudhia.com](http://pankajoudhia.com)**

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**Traditional medicinal knowledge about Pea leaf miner *Phytomyza atricornis* Gour. (Diptera : Agromyzidae) feeding on Bathua (*Chenopodium album*) leaves, in Chhattisgarh, India. Updated Version.**

**Pankaj Oudhia**

## **Introduction**

Entomophagy and Entomotherapy are well known in Asia since generations. Unfortunately not much work has been done to document valuable Traditional Medicinal Knowledge about Insects. Pankaj Oudhia is documenting this knowledge since year 1990. The present note “Traditional medicinal knowledge about Pea leaf miner *Phytomyza atricornis* Gour. (Diptera : Agromyzidae) feeding on Bathua (*Chenopodium album*) leaves, in Chhattisgarh, India.” is updated version of his previously published online research document available through [pankajoudhia.com](http://pankajoudhia.com).

**Keywords: Entomophagy; Entomotherapy; Medicinal Insects; Ayurveda; Chhattisgarh;**

According to the reference literatures, Pea leaf miner *Phytomyza atricornis* is a polyphagous insect. It commonly attacks the pulses like Pea, gram, soybean and black-gram. It is also a problematic pest of potato. The maggot mines the leaves feeding on the mesophyll and pupates within the larval mines. The adult punctures the leaf and feeds on the exuding sap. In Chhattisgarh, this insect infests Bathua (*Chenopodium album*) leaves also. Bathua grows as crop weed in winter season. The natives and traditional healers use Bathua as medicinal weed. During the Ethno-entomological surveys conducted in different parts of Chhattisgarh, in recent past, I have observed that the traditional healers of Chhattisgarh Plains and Northern hilly regions use the full fed maggots both internally as well as externally as medicine in treatment of many common troubles. Externally the freshly collected full fed maggots are used. In combination with cow urine, the traditional healers prepare an aqueous paste. This paste is applied externally on affected parts as a medicine of Safed Dag (Leucoderma). The leaves of Bathua are also used for the same purpose but according to the traditional healers the use of maggots feeding on Bathua leaves gives more promising results. The maggots are used in form of dry powder in treatment of spleen related troubles. In general, the healers use it in combination with medicinal herbs. The healers informed that maggots play an important role in this herbal combination. The healers further informed that the infestation of Pea leaf miner on Bathua is not very common in Chhattisgarh. This limited infestation has made the maggots precious among the healers. The healers aware of its miraculous effects many times give good price to the herb collectors. I have

observed during the surveys that many herb vendors, aware of medicinal uses of maggots, collect and sell it to the healers of neighbouring states. As the problem of Leucoderma is increasing in Chhattisgarh, the demand of maggots feeding on Bathua leaves are also increasing. The Pea leaf miner maggots feeding on different hosts are not used for this purpose. Very few traditional healers of Chhattisgarh are aware of this unique use. This observation motivated me to document this important information without any delay.

In reference literatures, Pea leaf miner is mentioned as problematic pest. Every year tons of agrochemicals are used to manage this problematic pest in crop fields. The unique traditional medicinal uses of this problematic pest will be of great help for the researchers engaged in research on insect utilization.

#### **New Comments added on June 2014**

*Through recent surveys I have collected information about over 8000 Formulations in which Phytomyza collected from Chenopodium is added as important ingredient. These Formulations are used in treatment of different diseases. In Phyla, Lippia and Premna based Formulations Phytomyza is added as tertiary ingredient. These Formulations are used in treatment of nervine disorders. In treatment of Anal Fistula the Traditional Healers use Gmelina and Tectona based Formulations. Phytomyza is added as tertiary ingredient in these Formulations. In Clerodendrum, Symphorema and Vitex based Formulations for Hypertension Phytomyza is added as quaternary ingredient. These Formulations are popular among the Healers. In treatment of Heart Diseases the Healers use Anisochilus, Anisomeles and Terminalia based Formulations. Phytomyza is added as senary ingredient in these Formulations. In treatment of gynecological diseases the Healers use Hyptis, Leonotis and Leucas based Formulations. Phytomyza is added as quinary ingredient in these Formulations. In Nepeta, Origanum and Ocimum based Formulations Phytomyza is added as nonary ingredient. These Formulations are used for treatment of decreased libido. In cases of Salvia Toxicity the Healers use Aloe based Formulations. Phytomyza is added as denary ingredient in these Formulations. For information on complete formulations and dosage please visit [pankajoudhia.com](http://pankajoudhia.com)*

Thank you very much for reading the article.

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## Citation

**Oudhia, Pankaj (2014). Traditional medicinal knowledge about Pea leaf miner *Phytomyza atricornis* Gour. (Diptera : Agromyzidae) feeding on Bathua (*Chenopodium album*) leaves, in Chhattisgarh, India. Updated Version. pankajoudhia.com**

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**Traditional medicinal knowledge about *Latoia lepida* Cram. (Lepidoptera : Limacodidae) feeding on Neem (*Azadirachta indica*) leaves, in Chhattisgarh, India. Updated Version.**

**Pankaj Oudhia**

## Introduction

**Entomophagy and Entomotherapy are well known in Asia since generations. Unfortunately not much work has been done to document valuable Traditional Medicinal Knowledge about Insects. Pankaj Oudhia is documenting this knowledge since year 1990. The present note “Traditional medicinal knowledge about *Latoia lepida* Cram. (Lepidoptera : Limacodidae) feeding on Neem (*Azadirachta indica*) leaves, in Chhattisgarh, India.” is updated version of his previously published online research document available through [pankajoudhia.com](http://pankajoudhia.com).**

**Keywords: Entomophagy; Entomotherapy; Medicinal Insects; Ayurveda; Chhattisgarh;**

Neem (*Azadirachta indica*) is a well known tree of religious and medicinal importance in Chhattisgarh. It is a common roadside tree bearing white and sweet scented flowers. The tree is considered a good air purifier, due to its large leaf area. It is native to Myanmar but grown all over India. The natives and traditional healers of Chhattisgarh have in depth traditional knowledge about different uses of its plant parts. Although Neem plant parts are used as promising tool to manage the problem of insect pest in organic farming but nature has made many enemies of Neem trees. The slug caterpillars *Latoia lepida* is among these enemies. This caterpillars feed on Neem leaves. During the Ethno-entomological surveys conducted in different parts of Chhattisgarh. I have observed that the senior natives and traditional healers of many parts of Chhattisgarh use the full fed caterpillars as veterinary medicine. The caterpillars are given to the sick cattle both internally as well as externally. Externally, the decoction is in use.

The cattle are washed in rainy days with the help of this decoction in order to protect them from infectious diseases. It is also applied in injured parts and cuts in order to stop further spread of infection. The healers consider it more promising than the Neem leaves on which the caterpillars feeds. In treatment of septic fever, the caterpillars are used in dry powder form. It is added in popular herbal combinations internally. The traditional healers informed that the caterpillar can also be used for human diseases but as other promising alternatives are available, it is used less commonly. The senior healers of Chhattisgarh Plains tried to explain that Neem is for human beings and caterpillars feed on it are for cattle. According to them, they are using the caterpillars since generations as veterinary medicine. They are not aware of its other medicinal uses.

In reference literatures, the traditional medicinal uses of *Latoia lepida* feeding on Neem leaves have not been reported. The present article is a first written document on this important aspect.

#### **New Comments added on June 2014**

*Through recent surveys I have collected information about over 8000 Formulations in which Latoia collected from Neem is added as important ingredient. These Formulations are used in treatment of different diseases. In Pisum, Sophora and Tacca based Formulations for Chronic Renal Failure the Traditional Healers add Latoia as tertiary ingredient. In Vicia, Trifolium and Robinia based Formulations Latoia is added as quaternary ingredient. These Formulations are used in treatment of old wounds. In treatment of Asthma the Healers use Linum, Medicago and Psoralea based Formulations. Latoia is added as senary ingredient in these Formulations. In Astragalus, Rumex and Amaranthus based Formulations it is added as quinary ingredient. These Formulations are used in treatment of Diabetes Complications. In case of Lamium Toxicity the Healers use Ocimum based Formulations. Latoia is added as septenary ingredient in these Formulations. In case of Wattakaka Overdose the Healers use Iris based Formulations. Latoia is added as octonary ingredient in these Formulations. In Setaria based Formulations for Polypogon Excess the Healers add Latoia as nonary ingredient. For complete information on Formulations and dosage please visit [pankajoudhia.com](http://pankajoudhia.com)*

Thank you very much for reading the article.

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## Citation

**Oudhia, Pankaj (2014). Traditional medicinal knowledge about *Latoia lepida* Cram. (Lepidoptera : Limacodidae) feeding on Neem (*Azadirachta indica*) leaves, in Chhattisgarh, India. Updated Version. [pankajoudhia.com](http://pankajoudhia.com)**

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**Traditional medicinal knowledge about *Latoia lepida* Cram. (Lepidoptera : Limacodidae) feeding on Ama (Mango) leaves in Chhattisgarh, India. Updated Version.**

**Pankaj Oudhia**

## Introduction

**Entomophagy and Entomotherapy are well known in Asia since generations. Unfortunately not much work has been done to document valuable Traditional Medicinal Knowledge about Insects. Pankaj Oudhia is documenting this knowledge since year 1990. The present note “Traditional medicinal knowledge about *Latoia lepida* Cram. (Lepidoptera : Limacodidae) feeding on Ama (Mango) leaves in Chhattisgarh, India.” is updated version of his previously published online research document available through [pankajoudhia.com](http://pankajoudhia.com).**

**Keywords: Entomophagy; Entomotherapy; Medicinal Insects; Ayurveda; Chhattisgarh;**

Ama (mango) is one of the major fruit crops of India. It is also a tree of religious and medicinal importance. Its fruits are edible. All parts of Ama are used for different purposes. Its Kernel is used for preparing products such as flour, starch, pickle and as cattle-feed. The leaves are strung in Hindu religious ceremonies. The natives and traditional healers of Chhattisgarh have in depth traditional medicinal knowledge about Ama. Many insects infest this tree. According to the reference literatures, *Latoia lepida* is one of the serious pest of Ama crop. The caterpillar feeds on the leaves. I have mentioned about traditional medicinal uses of *Latoia lepida* feeding on Ixora herb in previous articles. During the Ethno-entomological surveys conducted in different parts of Chhattisgarh, in recent past, I have observed that the traditional healers of Gariaband region use the full fed caterpillars of *Latoia lepida* as medicine. Among different varieties of Ama (Mango), the caterpillars feeding of indigenous varieties are preferred by the caterpillars. The caterpillars are not collected from orchards. The Ama tree growing in isolation in wild is searched for the caterpillars. The healers have no scientific explanation regarding these precautions but as traditional practice, they follow it sincerely. I am trying my best to search the science behind it. The full fed caterpillars are used after drying, in treatment of Mirgi (Epilepsy). The dried caterpillars are burned and the patients are suggested to inhale the fumes. As many other promising alternatives are available, it is used less frequently for this purpose. During interaction, the traditional healers informed that the caterpillars are good blood purifier. When I asked about the method, the healers replied just swallow three-four caterpillars daily after processing. If it not suits you, they further informed, prepare 'Bhajia' by mixing the caterpillars with aqueous solution of Besan (Gram flour), and in shape of globules fry it with the help of Tel (Oil). The traditional healers of this region suggest the patients having gynaecological troubles to never miss the chance of its use during availability season. For this purpose, only freshly collected caterpillars are used. Old or stored caterpillars are not used. The healers informed that their seniors were aware of many promising uses of caterpillars but unfortunately this traditional knowledge is not with us now.

The traditional medicinal uses of *Latoia lepida* feeding on Ama leaves have yet not been reported in reference literatures. This information is coming among the world community for the first time through this article.

### **New Comments added on July, 2014**

*Through recent surveys I have collected information about over 5000 Formulations in which Latoia collected from Mango is added as important ingredient. These Formulations are used in treatment of different diseases. In Limonia, Linum and Rhus based Formulations for gynecological troubles Latoia is added as tertiary ingredient with Rubia and Vanda. In Zanthoxylum, Tamarix and Pongamia based Formulations Latoia is added as quaternary ingredient. These Formulations are used in treatment of Spleen diseases. In treatment of Liver Diseases the Traditional Healers use Citrus, Desmodium and Ixora based Formulations. Latoia is added as senary ingredient in these Formulations. In Pluchea, Soyimida and Pueraria based Formulations for sexual health the Healers add Latoia as quinary ingredient. In Flemingia, Ficus and Terminalia based Formulations for Anxiety Disorders Latoia is added as nonary ingredient. In treatment of Migraine the Healers use Sterculia, Corchorus and Prunus based Formulations. Latoia is added as denary ingredient in these Formulations. In case of Valeriana Toxicity the Traditional Healers use Ventilago based Formulations. Latoia is added as septenary ingredient in these Formulations. For complete information on Formulations and dosage please visit [pankajoudhia.com](http://pankajoudhia.com)*

Thank you very much for reading the article.

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